SUITE-CLUB-MUSA _ mod.Air-Comfort Air

UK

INSTALLATION AND USE MANUAL

active system

MCZ S.p.A. - Via G.Oberdan 86, I - 33074 Vigonovo (PN) Italy.

CE 09

EN 14785 - 2006

Art. 15a B-VG - VKF AEAI

Regensburger und Münchener BStV erfüllt.

SUITE AIR / CLUB AIR / MUSA AIR

Potencia nominal: **Potência nominal:** **Nominal heat output:** **Brændværdi:**	Max Min	9,5 kW 2,4 kW
Emisión CO (al 13% de O2): **Emissão CO (13% de O2):** **CO emission (at 13% O2)** **CO emission (ved 13% O2):**	P max P min	0,014% 0,025%
Eficiencia: **Eficiencia:** **Efficiency:** **Virkningsgrad:**	P max P min	91,7% 94,1%
Temperadura humos: **Tempretura dos fumos:** **Flue gas temperature:** **Røggastemperatur:**	180 °C	
Asorbimiento electrico max: **Potência electrica absorbida:** **Max. electrical power supply:** **Max. elektrisk effekt:**	420 W (Med. 80 W)	
Tensión de funcionamiento: **Tensão electrica funcionamento:** **Rated voltage:** **Netspænding:**	230 V - 50 Hz.	
Distancias de seguridad (retro): **Distancia de segurança (trasiera):** **Safety clarence distance (back):** **Sikkerhedsafstand (bag):**	50 mm	
Distancias de seguridad (laterales): **Distancia de segurança (lateral):** **Safety clarence distance (side):** **Sikkerhedsafstand (side):**	100 mm	

Producto conforme a la instalación de tubos múltiples. Produto conforme para instalação em condutas multiplas. Appliance suitable for installation in a shared flue. Apparatet kan bruges i en røggassamleledning.

Utilizar sólo con combustibles adaptados. Utilizar somente combustivel adaquado. Use only recommended fuels. Anvend kun anbefalede brændsler.

Leer y seguir las instrucciones! Leia atentamente e siga as instruções! Leggere e seguire le istruzioni! Read and follow the operating instructions! Følg fabrikantens brugervejledning!

COD: 8900904500

MCZ S.p.A. - Via G.Oberdan 86, I - 33074 Vigonovo (PN) Italy.

CE 09

EN 14785 - 2006

Art. 15a B-VG - VKF AEAI

Regensburger und Münchener BStV erfüllt.

SUITE COMFORT AIR / CLUB COMFORT AIR MUSA COMFORT AIR

Potencia nominal: **Potência nominal:** **Nominal heat output:** **Brændværdi:**	Max Min	11,5 kW 2,4 kW
Emisión CO (al 13% de O2): **Emissão CO (13% de O2):** **CO emission (at 13% O2)** **CO emission (ved 13% O2):**	P max P min	0,013% 0,025%
Eficiencia: **Eficiencia:** **Efficiency:** **Virkningsgrad:**	P max P min	90,2% 94,1%
Temperadura humos: **Tempretura dos fumos:** **Flue gas temperature:** **Røggastemperatur:**	190 °C	
Asorbimiento electrico max: **Potência electrica absorbida:** **Max. electrical power supply:** **Max. elektrisk effekt:**	420 W (Med. 100 W)	
Tensión de funcionamiento: **Tensão electrica funcionamento:** **Rated voltage:** **Netspænding:**	230 V - 50 Hz.	
Distancias de seguridad (retro): **Distancia de segurança (trasiera):** **Safety clarence distance (back):** **Sikkerhedsafstand (bag):**	200 mm	
Distancias de seguridad (laterales): **Distancia de segurança (lateral):** **Safety clarence distance (side):** **Sikkerhedsafstand (side):**	200 mm	

Producto conforme a la instalación de tubos múltiples. Produto conforme para instalação em condutas multiplas. Appliance suitable for installation in a shared flue. Apparatet kan bruges i en røggassamleledning.

Utilizar sólo con combustibles adaptados. Utilizar somente combustivel adaquado. Use only recommended fuels. Anvend kun anbefalede brændsler.

Leer y seguir las instrucciones! Leia atentamente e siga as instruções! Leggere e seguire le istruzioni! Read and follow the operating instructions! Følg fabrikantens brugervejledning!

COD: 8900904701

INTRODUCTION 5

1. WARNINGS AND GUARANTEE CONDITIONS 6

1.1. SAFETY INSTRUCTIONS 6
1.2. OPERATING WARNINGS 7
1.3. GUARANTEE CONDITIONS 8
1.3.1. Limitations 8
1.3.2. Exclusions 8

2. THEORETICAL NOTIONS FOR INSTALLATION 10

2.1. PELLETS 10
2.2. PRECAUTIONS FOR INSTALLATION 11
2.3. OPERATING AREA 11
2.4. CONNECTION TO THE EXTERNAL AIR INTAKE 12
2.5. CONNECTION OF SMOKE DISCHARGE PIPE 13
2.6. CONNECTION TO THE FLUE PIPE 14
2.7. CONNECTION TO AN EXTERNAL FLUE WITH INSULATED OR DOUBLE-WALL PIPE 14
2.8. CONNECTION TO THE FLUE PIPE 14
2.9. OPERATING PROBLEMS CAUSED BY DRAUGHT DEFECTS IN THE FLUE 15

3. INSTALLATION AND ASSEMBLY 16

3.1. DRAWINGS AND TECHNICAL CHARACTERISTICS 16
3.1.1. Dimensions CLUB mod. AIR – COMFORT AIR 16
3.1.2. Dimensions SUITE mod. AIR – COMFORT AIR 16
3.1.3. Dimensions MUSA mod. AIR- COMFORT AIR 17
3.1.4. Technical characteristics 18
3.2. PREPARATION AND UNPACK ING 19
3.3. CONNECTIONS OF HOT AIR DUCTS FOR SUITE/CLUB/MUSA COMFORT AIR MODEL 21
3.4. INSTALLATION OF CERAMIC CLADDING FOR SUITE AND CLUB 22
3.4.1. Assembly of the lower panel – Suite and Club Stoves 22
3.4.2. Installation of side tiles 23
3.4.3. Installation of ceramic top 23
3.4.4. Assembly of sides on the MUSA stove 24
3.5. INSTALLATION OF AIR FILTER 25
3.6. OPENING/CLOSING OF ATHOS STOVE DOOR 25
3.7. MAKING THE ELECTRICAL CONNECTIONS 25

4. OPERATION 26

4.1. PRE-LIGHTING WARNINGS 26
4.2. PRE-LIGHTING CHECK 27
4.3. LOADING THE PELLETS 27
4.4. LCD REMOTE CONTROL 27
4.4.1. General characteristics of the LCD remote control 27
4.4.2. LCD Remote control 28
4.4.3. Remote control display 29
4.4.4. Type of batteries and replacement 30
4.5. EMERGENCY PANEL 31
4.6. SETTINGS TO CARRY OUT BEFORE FIRST LIGHTING 32
4.6.1. Setting current day and time 32
4.6.2. Setting the temperature unit of measure 32
4.7. FIRST LIGHTING 32
4.7.1. Turning on/off from the remote control 32
4.7.2. Note on first ignition 33
4.7.3. Start-up/shutdown from emergency panel 33
4.8. OPERATING MODE 34
4.8.1. Manual and automatic 34

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

4.8.1.1. *Changing from manual to automatic mode* 34
4.8.2. Manual mode 34
4.8.3. Automatic mode 35
4.8.3.1. *Changing from automatic to manual mode* 35
4.8.4. Automatic mode with ECO-STOP 36
4.8.4.1. *Activation /de-activation of ECO-STOP mode* 36
4.9. HOT AIR VENTILATION 37
4.9.1. Menu navigation 37
4.9.2. AIR Version 37
4.9.3. COMFORT AIR Version 38
4.10. SLEEP FUNCTION 38
4.11. TIMER 39
4.11.1. Current date and clock 39
4.11.2. TIMER activation and selection of a programme. 39
4.11.3. TIMER de-activation. 41
4.12. PRE-SET WEEKLY AND DAILY PROGRAMMES 42
4.12.1. Weekly programmes 42
4.12.2. Daily programmes 43
4.13. PRACTICAL EXAMPLE OF WEEKLY/DAILY PROGRAMMING 44
4.13.1. Setting of a weekly programme 44
4.13.2. Setting of a daily programme 44
4.14. INSERTION OF KEYPAD LOCK 46
4.15. SYNCHRONIZATION OF REMOTE CONTROL 47
4.16. SAFETY DEVICES 47
4.17. ALARM SIGNALLING 48
4.18. Exiting alarm condition 50
4.18.1. Mechanical shutdown of the stove 50

5. MAINTENANCE AND CLEANING 51

5.1. DAILY AND WEEKLY CLEANING BY THE USER 51
5.1.1. Before each lighting 51
5.1.2. Check every 2/3 days 51
5.1.3. Cleaning the glass 52
5.1.4. Cleaning of the air filter 52
5.2. PERIODIC CLEANING BY A SPECIALISED TECHNICIAN 53
5.2.1. Cleaning of the heat exchanger 53
5.2.1.1. *Musa stove (steel sides) COMFORT AIR version* 53
5.2.1.2. *Suite and Club stove (ceramic sides) COMFORT AIR version* 55
5.2.1.3. *Suite and Club stove (ceramic sides) AIR version* 56
5.2.2. CLEANING THE LOWER COMPARTMENT 58
5.2.3. Shutting the stove down (end of season) 58
5.2.4. Check of internal components 58

6. PROBLEMS / CAUSES / SOLUTIONS 60

7. ELECTRICAL DIAGRAMS 62

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

INTRODUCTION

Dear Customer,

We wish to thank you for choosing an MCZ product, specifically a stove of the MCZ pellet line.

In order to get the best performance from your stove and to enjoy to the full the warmth and the sense of well-being which the flame will diffuse through the home, we recommend that you read this booklet carefully before lighting the stove for the first time.

While thanking you again, may we remind you that the stove **MUST NOT** be used by children, and that they must always be kept at a safe distance from it!

Revisions to the publication

In order to improve the product, to keep this publication up to date the manufacturer reserves the right to make modifications without any advance notice. Any reproduction, even in part, of this manual without the consent of the manufacturer is prohibited.

Care of the manual and how to consult it

- Take good care of this manual and keep it in a place which can easily and quickly be reached.
- If this manual should be lost or destroyed, or if it is in poor condition, ask for a copy from your retailer or directly from the manufacturer, providing product identification data.
- Information which is essential or that requires special attention is shown in **bold text.**
- *Italic text* is used to call your attention to other paragraphs in the manual or for any additional clarifications.

SYMBOLS USED IN THE MANUAL

	ATTENTION This warning sign indicates that the message to which it refers should be carefully read and understood, because failure to comply with what these notices say can cause serious damage to the stove and put the user's safety at risk.
	INFORMATION This symbol is used to highlight information which is important for proper stove operation. Failure to comply with these provisions will compromise use of the stove and its operation will not be satisfactory.
	OPERATING SEQUENCES: Indicates a sequence of buttons to be pushed to access menus or to make adjustments.
	MANUAL Indicates that you should carefully read this manual or the related instructions.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

1. WARNINGS AND GUARANTEE CONDITIONS

1.1. SAFETY INSTRUCTIONS

- **Installation of the stove, making the electrical connections, checking its operation, and maintenance are all tasks which should be carried out by qualified and authorised personnel.**
- **Install the stove in accordance with the regulations in force in your local area, region and country.**
- For the correct use of the stove and of the electronic apparatus connected to it, and to prevent accidents, the instructions given in this booklet must always be followed.
- Use, adjustment and programming must be carried out by adults. Errors or incorrect settings may cause hazardous conditions and/or poor operation.
- Before beginning any operation, the user, or whoever is preparing to operate on the stove, must have read and understood the entire contents of this instruction booklet.
- The stove is to be used only for its intended purpose. Any other use is to be considered improper and therefore hazardous.
- Do not use the stove for standing on or as any kind of support.
- Do not put clothes to dry on the stove Any clothes hangers and suchlike must be kept a suitable distance from the stove. **Danger of fire.**
- All responsibility for improper use is taken entirely by the user and such use relieves MCZ of any civil or criminal responsibility.
- Any kind of tampering or unauthorised substitution of non-original spare parts can be hazardous for the safety of the operator and relieves MCZ of any civil or criminal responsibility.
- Most of the surfaces of the stove are extremely hot (the door, the handle, the glass, smoke discharge pipes etc.). Avoid coming into contact with these parts, therefore, without adequate protective clothing or suitable implements, such as gloves with thermal protection or implements which keep the hands cool.
- Carefully explain this hazard to elderly people, disabled people and particularly to all children, keeping them away from the stove while it is running.
- **Under no circumstances should the stove be run with the door open or the glass broken.**
- Do not touch the stove with wet hands, in view of the fact that it is an electrical appliance. Always disconnect the supply cable before doing anything to the unit.
- Before carrying out any cleaning or maintenance operation, make sure in advance that the stove is disconnected from the mains electricity supply, by

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

turning off the main switch located on the back of the stove, or by unplugging the supply cable.

- If there is a fire in the flue pipe, extinguish the stove, disconnect it from the power supply and never open the door. Then contact the competent authorities.
- The stove must be connected to an electrical system which is equipped with an earth conductor, as laid down in directives 73/23 EEC and 93/98 EEC.
- The system must be of adequate rated capacity for the stated electrical power of the stove.
- Incorrect installation or faulty maintenance (not conforming to the requirements set out in this booklet) can cause harm to people, animals or property. In such cases MCZ is absolved from any civil or criminal responsibility.

1.2. OPERATING WARNINGS

- Shut the stove down in the event of a breakdown or bad running.
- Pellets must not be fed manually into the burner.
- Accumulated unburnt pellets in the burner after repeated failed ignitions must be removed before lighting.
- Do not wash the inside of the stove with water.
- Do not wash the stove with water. The water could get inside the unit and damage the electrical insulation and cause electric shocks.
- Do not expose your own body to hot air for extended periods. Do not overheat the room you are in and where the stove is installed. This could cause injuries and health problems.
- Do not expose plants or animals directly to a current of hot air. Both plants and animals could be harmed by it.
- Do not put any fuels in the hopper but wood pellets.
- Install the stove in a location which is suitable for firefighting, and equipped with all services such as air and electricity supply and provision for discharging combustion gases.
- If the stove and the ceramic cladding are in storage, it should be in a place that is free of damp, and they should not be exposed to extremes of temperature.
- It is inadvisable to base the stove directly on the floor, and if the floor is made of flammable material, it must be suitably insulated.
- Do not light the stove with flammable materials if the ignition system breaks down.

INFORMATION

- In case of any problems, get in touch with your dealer, or a qualified engineer authorised by MCZ, and if a repair is necessary, insist on the use of original spare parts.
- Use only the fuel recommended by MCZ (for Italy pellets

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

with a diameter of 6 mm and for other European countries with a diameter of 6-8 mm) and provided only with an automatic supply system.

- Periodically check and clean the smoke outlet ducts (connection to the flue pipe).
- Accumulated unburnt pellets in the burner after repeated failed ignitions must be removed before lighting.
- The pellet stove is not a cooking appliance.
- Always keep the cover of the fuel hopper closed.
- Keep this instruction manual carefully because it must stay with the stove throughout its working life. If the stove is sold or transferred to another user, always make sure that the booklet goes with the product.
- If it gets lost, ask MCZ or your authorised dealer for another copy.

1.3. GUARANTEE CONDITIONS

MCZ guarantees the stove, **excluding the components which are subject to normal**, for a period of two years from the date of purchase, as proved by a supporting document which gives the name of the vendor and the date on which the sale took place. The guarantee is conditional on the guarantee certificate being filled in and returned within 8 days, and requires that the product be installed and tested by a specialised installer, according to the detailed instructions given in the instruction booklet supplied with the product.

The term 'guarantee' is to be understood to denote the free-of-charge replacement or repair of **parts recognised to have been defective at the start by reason of manufacturing defects.**

1.3.1. Limitations

The above guarantee does not cover components relating to electrical and electronic parts, or fans, on which the guarantee period is 1 year from the purchase of the product, documented as specified above. The guarantee does not cover parts subject to normal wear such as gaskets, glass, and any parts with can be removed from the firebox.

The replacement parts will be guaranteed for the remainder of the guarantee period starting from the date of purchase of the product.

1.3.2. Exclusions

Variations in colour in the painted or ceramic parts, and crackling of the glaze on the ceramics, do not constitute grounds for a claim under the guarantee, as they are natural characteristics of the material and of the use of the product.

The guarantee does not cover any parts which may be found to be faulty as a result of negligence or carelessness in use, or of incorrect maintenance, or of installation not complying with MCZ's specification (see the relevant chapters in this user manual).

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

MCZ refuses to accept any responsibility for any damage which may be caused, directly or indirectly, by persons, animals or things in consequence of the failure to observe all the prescriptions laid down in the instruction booklet, especially those concerning warnings on the subject of installation, use and maintenance of the appliance.

If the product does not perform correctly, contact your local retailer and/or importer.

Damage caused by transport and/or handling is excluded from the guarantee.

For installation and use of the product, reference must be made exclusively to the booklet supplied.

The guarantee will be invalidated in the event of damage caused by tampering with the appliance, atmospheric agents, natural disasters, electrical discharges, fire, defects in the electrical system, and caused by lack of, or incorrect, maintenance in terms of the manufacturer's instructions.

CLAIMS UNDER THE GUARANTEE

the request for action under the guarantee must be addressed to the retailer, who will forward the claim to MCZ's technical assistance service.

MCZ DECLARES THAT THE STOVE WHICH YOU HAVE PURCHASED COMPLIES WITH EEC DIRECTIVE 89/336 and 72/23 and SUCCESSIVE AMENDMENTS

MCZ refuses to accept any responsibility in the event that the stove or any other accessory have been improperly used or modified without authorisation.

For all replacement of parts, only original MCZ spare parts must be used.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

2. THEORETICAL NOTIONS FOR INSTALLATION

2.1. PELLETS

Wood pellets are manufactured by hot-extruding compressed sawdust which is produced during the working of natural dried wood. The compactness of the material comes from the lignin which is contained in the wood itself, and allows the production of pellets without the use of glues or binders.

Fuel pellets

The market offers different types of pellet with characteristics which vary depending on what mixture of woods is used. The diameter varies between 6 mm and 8 mm, with a standard length in the range 5 mm to 30 mm. Good quality pellets have a density which varies between 600 kg/m3 and 750 kg/m3, with a moisture content which varies from 5% to 8% by weight.

Besides being an ecological fuel (exploiting timber residues to the maximum and achieving cleaner combustion than is possible with fossil fuels), pellets also have technical advantages. While good-quality timber has a calorific power of 4.4 kW/kg (with 15% moisture, therefore after about 18 months' seasoning), the equivalent figure for pellets is 4.9 kW/kg.

To ensure good combustion, the pellets must be stored in an area that is free of humidity and protected from dirt. The pellets are usually supplied in 15 kg. sacks, so storing them is very convenient.

Good quality pellets ensure good combustion, thus lowering the emission of harmful agents into the atmosphere.

15 Kg sack of fuel

The poorer the quality of the fuel, the more frequently will intervention be necessary for cleaning the internal parts, such as the grate and the combustion chamber.

The main certifications of quality for pellets in the European market are **DINplus** and **Ö-Norm M7135**; these ensure respect of:

- ✓ Calorific power: 4,9 kW/kg
- ✓ Water content: max 10% of weight
- ✓ Percentage of ashes: max 0,5% of weight
- ✓ Diameter: 5 – 6mm
- ✓ Length: max 30mm
- ✓ Contents: 100% untreated wood, with no added bonding substances (bark percentage 5% max)
- ✓ Packaging: in sacks made from ecologically compatible or biologically decomposing material

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

MCZ strongly recommends using certified fuel in its stoves (DINplus e **Ö-Norm M7135).**

The use of fuel of inferior quality or not conforming to the specification given above compromises the running of your stove and can therefore lead to the termination of the guarantee and of the manufacturer's responsibility for the product.
MCZ pellet stoves run exclusively on pellets with a diameter of 6 mm (only for Italy) and 6-8 mm (European countries) with lengths that go from 5 mm to 30 mm.

2.2. PRECAUTIONS FOR INSTALLATION

IMPORTANT!

Installation and assembly of the stove must be carried out by qualified personnel.

The stove must be installed in a suitable position to allow the normal operations of opening and ordinary maintenance.
The site must be:

- capable of providing the environmental conditions for operation
- equipped with power supply 230V 50 Hz (EN73-23)
- capable of taking an adequate system for smoke discharge
- provided with external ventilation
- provided with an earth connection complying with CEI 64-8

The stove must be connected to a flue pipe or an internal or external vertical duct conforming to current standards UNI 7129 - 7131 9615.

The stove must be positioned in such a way that the electrical plug is accessible.

IMPORTANT!

The stove must be connected to a flue pipe or a vertical duct which can discharge the fumes at the highest point of the building.

The fumes are however derived from the combustion of wood products, and if they come into contact with or close to walls, they can make dirty marks.

Also take care because the fumes are very hot but almost invisible, and can cause burns on contact.

The holes for the passage of the smoke pipe and for the intake of air from outside should be made before positioning the stove unit.

2.3. OPERATING AREA

For proper functioning and a good temperature distribution, the stove should be positioned in a location where it is able to take in the air necessary for combustion of the pellets (about 40 m^3/h must be

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

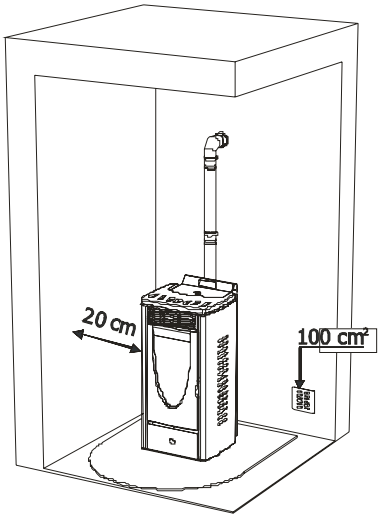
available), as laid down in the standard governing the installation and in accordance with local national standards.

The volume of the room must not be less than 30 m^3.

The air must come in through permanent openings made in walls (in proximity to the stove) which give onto the outside, with a minimum cross-section area of 100 cm^2.

These openings must be made in such a way that it is not possible for them to be obstructed in any way.

Alternatively, the air can be taken from rooms adjacent to the one which needs ventilating, as long as they are provided with an air intake from the outside, and are not used as bedrooms or bathrooms, and provided there is no fire risk such as there is for example in garages, woodsheds, and storerooms, with particular reference to what is laid down in current standards.



Example of pellet stove installation

It is not permissible to install the stove in bedrooms, bathrooms or showers, or in a room where another heating appliance is installed (fireplace, stove etc.) which does not have its own independent air intake.

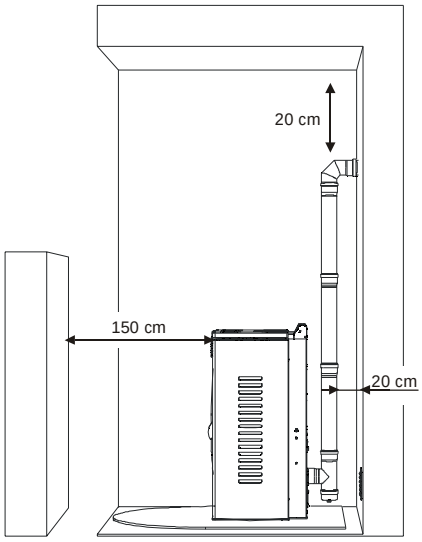
Locating the stove in a room with an explosive atmosphere is prohibited.

The floor of the room where the stove is to be installed must be strong enough to take its weight.

If the walls are not flammable, position the stove with a clearance to the rear of at least 10 cm.

For flammable walls, keep a minimum distance of 20 cm at the rear, 20 cm on the sides and 150 cm at the front.

If the room contains objects which are believed to be particularly delicate, such as drapes, sofas and other furniture, their distance from the stove should be considerably increased.



Example of pellet stove installation

If the flooring is made of wood, provide a floor protection surface in compliance with current national standards.

2.4. CONNECTION TO THE EXTERNAL AIR INTAKE

It is essential that at least as much air must be able to flow into the room where the stove is installed as is required for proper combustion in the appliance and for the ventilation of the room. This can be effected by means of permanent openings in the walls of the room to be ventilated, which give onto the outside, or by single or collective ventilation ducts.

For this purpose, on the external wall near the stove, a hole must be made with a minimum free cross-section of 100 cm^2. (equivalent to a round hole of 12 cm diameter or a square hole 10x10 cm), protected by a grille on the inside and the outside.

The air intake must also:

- communicate directly with the room where the stove is installed
- be protected by a grille, metal mesh or suitable guard, as long as this does not reduce the area below the minimum.
- be positioned in such a way as to be impossible to obstruct

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

It is not compulsory to connect the air intake directly with the stove (so that it draws air directly from outside), but it is essential at all events to ensure an airflow of 50 cubic metres per hour by the use of a hole of the dimensions given.

See standard UNI 10683.

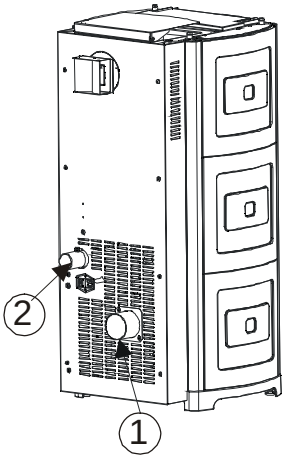
2.5. CONNECTION OF SMOKE DISCHARGE PIPE

When making the hole for the passage of the smoke discharge pipe, it is necessary to take into account the possible presence of flammable materials. If the hole will be going through a wall made of wood or any other material which is sensitive to heat, the **INSTALLER MUST** first of all use the special wall union (diam.13cm 13cm minimum) and properly insulate the pipe of the stove that passes through it, using adequate insulation materials (thickness 1.35cm with minimum thermal conductivity of 0.07 W/m°K).

The same is true if the stove pipe must run through vertical or horizontal stretches passing in proximity (min.20cm) to the heat-sensitive wall

As an alternative we recommend the use of insulated pipe, which can also be used on the outside to avoid condensation.

The combustion chamber works in low pressure. The smoke duct for the discharge of fumes will also be under low pressure when connected to an efficient flue pipe as directed.



Rear view of a pellet stove

1) Smoke outlet
2) Combustion air intake

Pipes and unions with suitable gaskets must always be used, to guarantee a hermetic seal.

All sections of the smoke duct must be inspectable and removable to enable periodic internal cleaning. Tee connectors with inspection caps should be used.

Position the stove bearing in mind all the instructions and considerations above.

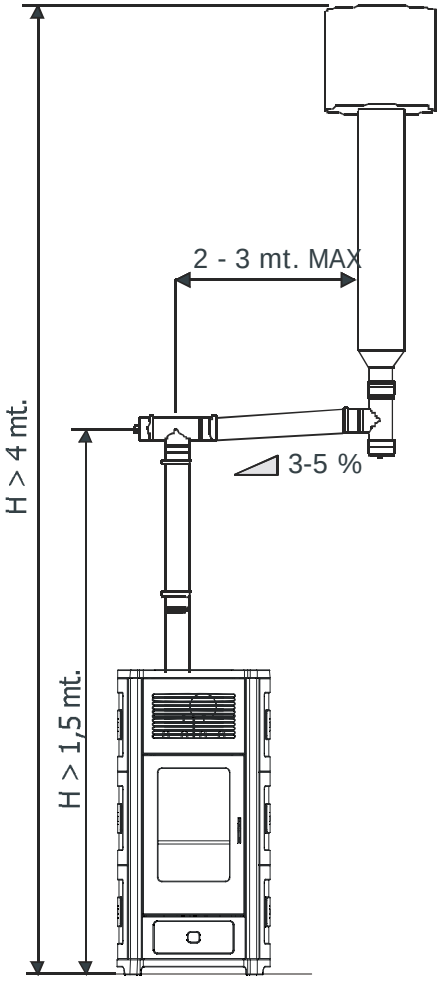
IMPORTANT!

All 90 degree changes of direction in the flue pipe must be fitted with suitable tee connectors to allow the possibility of inspection. (see accessories for pellet stove)

It is absolutely prohibited to fit a grille on the end of the discharge pipe, because it could lead to poor running of the stove.

FOR CONNECTION TO THE FLUE PIPE, NOT MORE THAN 2-3 METRES OF HORIZONTAL PIPE MUST BE USED AND NOT MORE THAN THREE 90° CURVES MUST BE USED

IT IS ALSO ADVISABLE NOT TO EXCEED 6 METRES IN LENGTH WITH THE PIPE Ø 80 mm



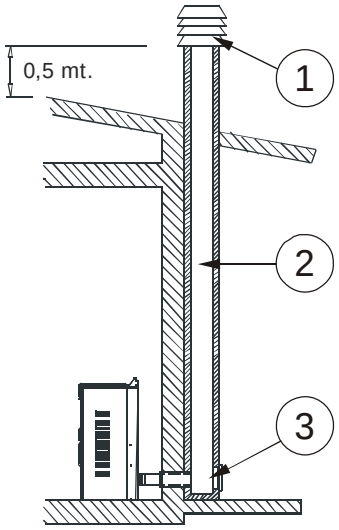
Example of pellet stove installation

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

2.6. CONNECTION TO THE FLUE PIPE

The flue pipe must have internal dimensions not larger than 20 x 20 cm, or diameter 20 cm. In the event of larger dimensions, or of the flue pipe being in poor condition (for example cracks, poor insulation, etc.), it is advisable to fit a stainless steel pipe of suitable diameter inside the flue pipe throughout its length, right up to the top.
Check with suitable instruments that there is a minimum draught of 10 Pa.
At the bottom of the flue pipe, provide an inspection cap to allow periodic checking and cleaning, **which must be done annually.**
Make a gas-tight connection to the flue pipe, using pipes and connectors as recommended by us.
You must ensure that a windproof cowl should be fitted which complies with the standards in force.

This type of connection ensures the evacuation of the fumes even in the event of a temporary power cut.

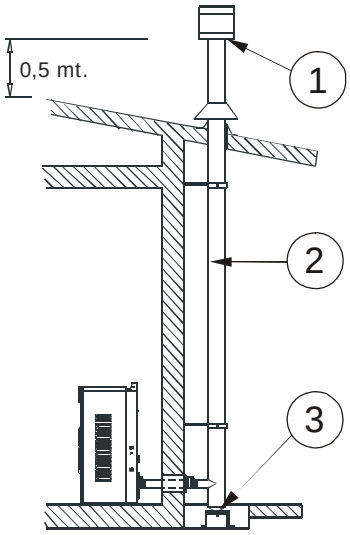


1) Windproof cowl
2) Flue pipe
3) Inspection

2.7. CONNECTION TO AN EXTERNAL FLUE WITH INSULATED OR DOUBLE-WALL PIPE

The external fluepipe must have internal dimensions of minimum 10x10 cm or 10 cm diameter, and maximum 20x20 cm or 20 cm diameter.
Check with suitable instruments that there is a minimum draught of 10 Pa.
The only type of pipe which is permissible is insulated (double-walled) stainless steel, smooth on the inside, fixed to the wall. Flexible stainless steel pipe must not be used. At the bottom of the flue pipe, provide an inspection cap to allow periodic checking and cleaning, **which must be done annually.** Make a gas-tight connection to the flue pipe, using pipes and connectors as recommended by us.
You must ensure that a windproof cowl should be fitted which complies with the standards in force.

This type of connection ensures the evacuation of the fumes even in the event of a temporary power cut.



1) Windproof cowl
2) Flue pipe
3) Inspection

2.8. CONNECTION TO THE FLUE PIPE

For proper functioning, the connecting pipe between the stove and the chimney or flue duct must have a slope of not less than 3% in the horizontal stretches, the length of which **must not exceed 2/3 metres**, and the vertical distance between one tee connector and another (change of direction) must not be less than 1.5m.

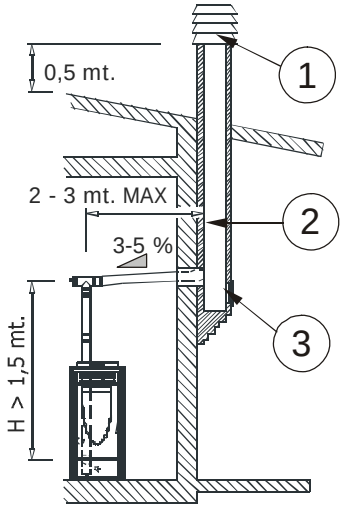
Check with suitable instruments that there is a minimum draught of 10 Pa.

At the bottom of the flue pipe, provide an inspection cap to allow periodic checking and cleaning, **which must be done annually.**

Make a gas-tight connection to the flue pipe, using pipes and connectors as recommended by us.

You must ensure that a windproof cowl should be fitted which complies with the standards in force.

This type of connection ensures the evacuation of the fumes even in the event of a temporary power cut.

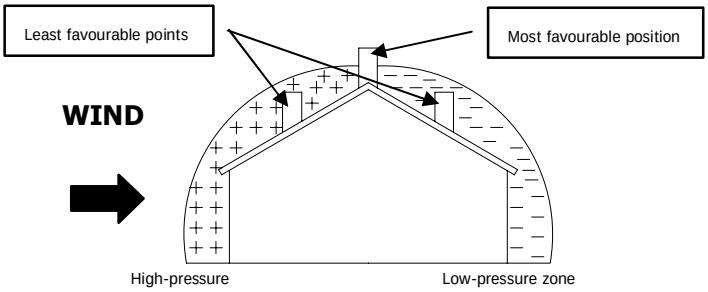


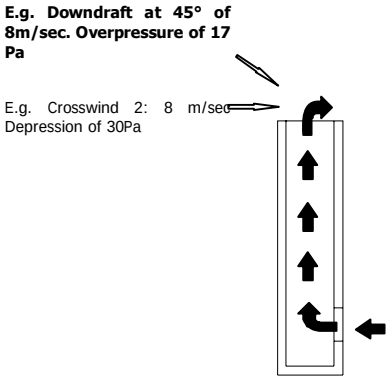
1) Windproof cowl
2) Flue pipe
3) Inspection

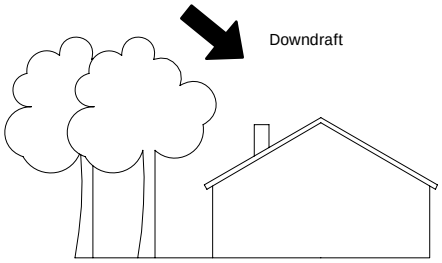
Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

2.9. OPERATING PROBLEMS CAUSED BY DRAUGHT DEFECTS IN THE FLUE

Of all the weather and geographical conditions which affect the operation of a flue pipe (rain, fog, snow, altitude a.s.l., exposure to sunlight, direction of facing), the **wind** is unquestionably the most decisive. In fact, along with thermal depression caused by the difference in temperature inside and outside of the chimney, there is another type of depression or over-pressure: dynamic pressure caused by the wind. An updraft always increases depression and hence draught. A crosswind increases depression provided the cowl has been installed properly. A downdraft always decreases depression, at times inverting it.

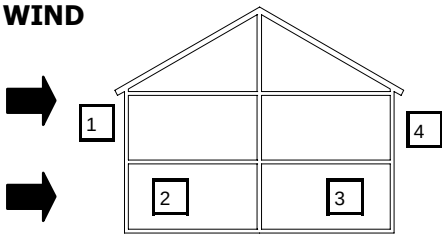






Besides the direction and force of the wind, the position of the flue and the cowl with respect to the roof of the building and the surrounding landscape is important.

The wind also influences the operation of the chimney indirectly by creating high-pressure and low-pressure zones, not only outside the building but inside as well. In rooms directly exposed to the wind **(2)**, an indoor high-pressure area can be created which can augment the draught in stoves and fireplaces, but it can be counteracted by the external high pressure if the cowl is situated on the side exposed to the wind **(1)**. On the other hand, in the rooms on the opposite side from the direction of the wind **(3)**, a dynamic depression can be created which competes with the natural thermal depression developed by the chimney, but this can be compensated for (sometimes) by locating the flue on the opposite side from the direction of the wind **(4).**



1-2 = High-pressure zones

3-4 = Low-pressure zones

IMPORTANT!

The operation of the pellet stove is noticeably sensitive to the conformation and position of the flue which is adopted.

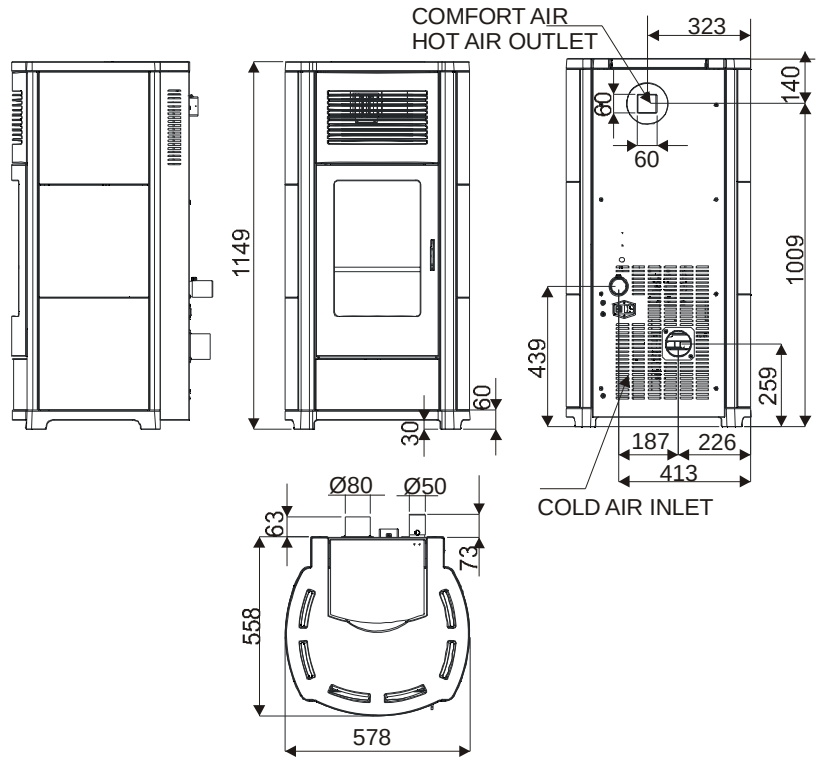
Hazardous conditions can only be overcome by suitable setting-up of the stove carried out by qualified MCZ personnel.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

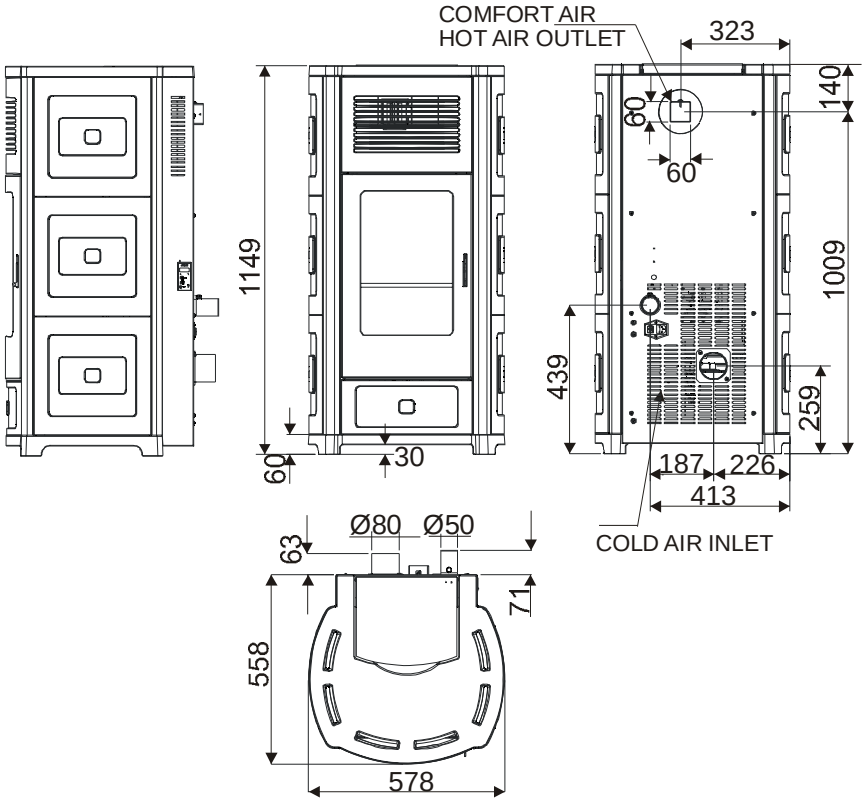
3. INSTALLATION AND ASSEMBLY

3.1. DRAWINGS AND TECHNICAL CHARACTERISTICS

3.1.1. Dimensions CLUB mod. AIR – COMFORT AIR

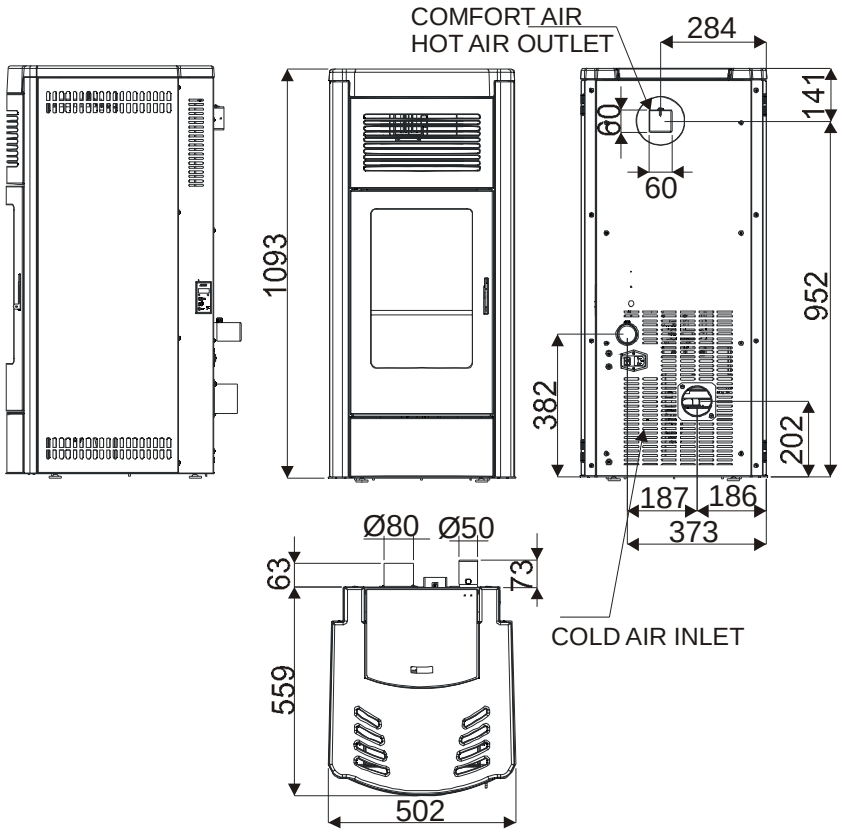


3.1.2. Dimensions SUITE mod. AIR – COMFORT AIR



Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

3.1.3. Dimensions MUSA mod. AIR- COMFORT AIR



IMPORTANT!

The hole in CLUB, SUITE and MUSA stoves for hot air outlet, located at the top to the rear of the stove, is only present for the COMFORT AIR model.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

3.1.4. Technical characteristics

Technical characteristics	CLUB – SUITE – MUSA Mod. AIR
Overall thermal power Max.	9,5 kw / 8170 kcal
Overall thermal power Min.	2,4 kw / 2064 kcal
Yield at maximum	91,7%
Yield at minimum	94,1%
Temperature of exhaust smoke at maximum	180°C
Temperature of exhaust smoke at minimum	100°C
CO at 13%O_2 at minimum and maximum	0,025 – 0,014%
CO_2 at minimum and maximum	5,7% - 8,7%
Mass of smoke at minimum and maximum	4,0-7,7 g/sec
Minimum draught at maximum power	0,10 mbar – 10 Pa
Minimum draught at minimum power	0,05 mbar – 5 Pa
Hopper capacity	44 litres
Fuel pellet type	Pellet diameter 6-8 mm. Length range 5-30 mm.
Pellet consumption per hour	Min~0,6 kg/h* Max~2,0 kg/h*
Operating time between re-fuelling	Al min~48 h* Al max~15 h*
Heatable volume m^3	204/40-233/35-272/30 **
Combustion air inlet	External diameter 50 mm.
Smoke outlet	External diameter 80 mm.
Maximum absorbed electrical power	Max. 420 W – Med. 80 W
Power supply frequency and voltage	230 Volt / 50 Hz
Net weight	160 Kg.
Weight with packaging	170 Kg.

* Data that may vary depending on the type of pellets used.

**Heatable volume based on demand of cal/m^3 40-35-30 (respectively 40-35-30 Kcal/h for m^3)

Appliance suitable for installation in a shared flue.

Technical characteristics	CLUB – SUITE – MUSA Mod. COMFORT AIR
Overall thermal power Max.	11,5 kw / 9890 kcal
Overall thermal power Min.	2,4 kw / 2064 kcal
Yield at maximum	90,2%
Yield at minimum	94,1%
Temperature of exhaust smoke at maximum	190°C
Temperature of exhaust smoke at minimum	130°C
CO at 13%O_2 at minimum and maximum	0,025 – 0,013%
CO_2 at minimum and maximum	5,7% - 8,6%
Mass of smoke at minimum and maximum	4,0-9,9 g/sec
Minimum draught at maximum power	0,10 mbar – 10 Pa
Minimum draught at minimum power	0,05 mbar – 5 Pa
Hopper capacity	44 litres
Fuel pellet type	Pellet diameter 6-8 mm. Length range 5-30 mm.
Pellet consumption per hour	Min~0,6 kg/h* Max~2,2 kg/h*
Operating time between re-fuelling	Al min~48 h* Al max~13 h*
Heatable volume m^3	247/40-283/35-330/30 **
Combustion air inlet	External diameter 50 mm.
Smoke outlet	External diameter 80 mm.
Maximum absorbed electrical power	Max. 420 W – Med. 100 W
Power supply frequency and voltage	230 Volt / 50 Hz
Net weight	160 Kg.
Weight with packaging	170 Kg.

* Data that may vary depending on the type of pellets used.

**Heatable volume based on demand of cal/m^3 40-35-30 (respectively 40-35-30 Kcal/h for m^3)

Appliance suitable for installation in a shared flue.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

3.2. PREPARATION AND UNPACK ING

Suite and Club stoves are delivered in two packages:

- ✓ The first contains the stove
- ✓ The second contains the ceramic cladding. (Fig. 2)

The **Musa** stove is delivered only with one packaging consisting of a steel structure and sides as in fig.1.

To open the packaging, remove, for the **Suite** and **Club** stoves, the four brackets that lock the stove to the pallet (two on the right and two on the left side-fig.3), while for the **Musa** stove remove the screws directly from the base of the stove. Position the stove in the chosen place, paying attention that it meets the instructions above.

Figure 1 – Example of stove packaging

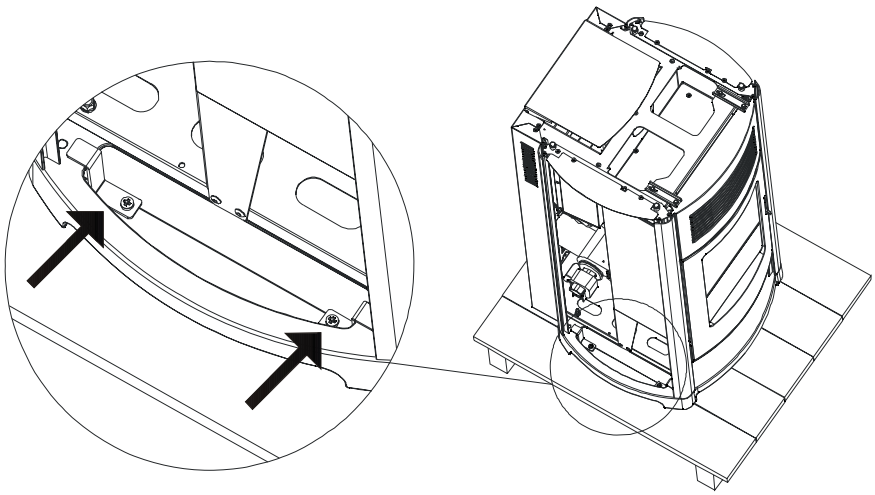


Figure 3 - Removing the packaging screws (in figure Suite stove)

Figure 2 - Example of packing for ceramics

The stove body or unit must always be kept in a vertical position when moved, and moved only using carts. Special care must be used to protect the door and the glass from impacts that would damage them.

Moving the product must always be done with care. If possible, unpack the stove in the area where it is going to be installed.

The materials which make up the packaging are not toxic or harmful, so no special procedures for disposal by required.

Their storage, disposal or possible recycling are therefore the responsibility of the final user, in compliance with current legislation on the subject.

Do not store the stove unit or its cladding without their packaging.

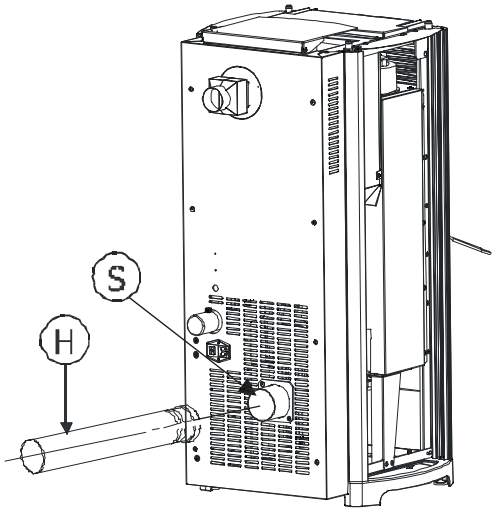
Position the stove without its cladding and connect it to the flue pipe. Once the operations for connection are complete, assemble the cladding (ceramics or steel sides).

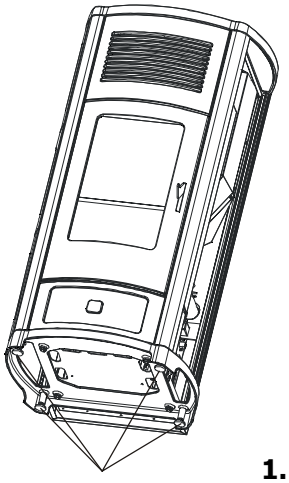
Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

If the stove needs to be connected to a discharge pipe which goes through the rear wall (to connect up with the flue), take the greatest care to make sure that the joint is not stressed.

Use the four adjustable feet **(J)** to get the stove correctly levelled so that the smoke outlet **(S)** is lined up with the connecting pipe **(H)** . The feet must be adjusted without the ceramic or steel sides, because the adjustment occurs inside the cladding.

If the smoke outlet of the stove is forced or used improperly to lift it or position it, the operation of the stove can be damaged irreparably.





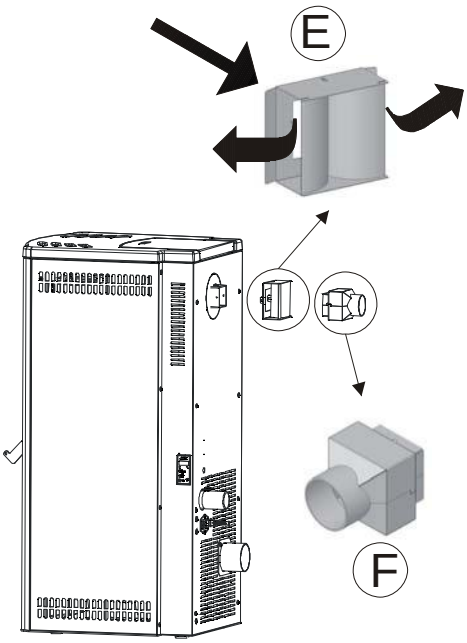
J

Piedino J

1. Turn the feet clockwise to lower the stove
2. Turn the feet counter-clockwise to lower the stove

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

3.3. CONNECTIONS OF HOT AIR DUCTS FOR SUITE/CLUB/MUSA COMFORT AIR MODEL



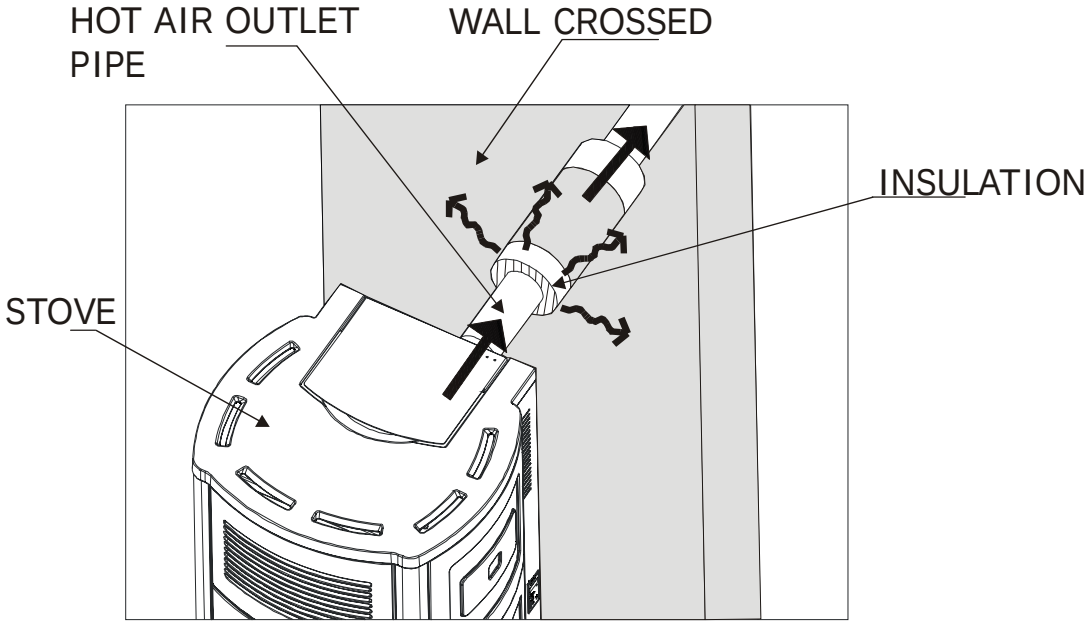
Once the stove is in position, you can begin installation of the hot air ducts.

Comfort Air stoves are provided with an air deflector **E** as standard. This means that the rear flange for hot air outlet is connected to this deflector, which allows the hot air to be directed to the right and left of the room, in case the channelling of hot air is not desired.

If you wish to channel the hot air, the deflector **E must be removed.** Connect the soundproofed connection **F** (optional) that makes the output from square to round, and then make the various connections with appropriate MCZ pipes and connections to divert the flow in more hot air diffusers (120x120 mm nozzle). These ducts may also be walled up. (SEE OPTIONALS)

The air outlet pipe can reach very high temperatures, up to 200°C: it is therefore necessary to insulate it properly with suitable materials, in those points where it may come into contact with flammable surfaces or that are affected by the temperature (e.g. discolouration of paint, ducts for electric cables, plasterboard, etc.); it is also necessary to protect people and animals from voluntary or accidental contact. In any case comply with the regulations and laws in force in the region where the product is installed.

It is advisable to provide insulation along the entire route of the pipe to decrease dispersion and increase the heat energy in the environment.



Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

In case of crossing walls built of flammable material, **THE INSTALLER MUST** suitably insulate the pipe of the stove that crosses the walls, using suitable insulating material (1.3-5 thick with a min. thermal conductivity of 0.07 W/m°K).

A pipe which is inserted in the wall must be properly insulated so that it does not lose heat and so that air outlet is silent.

You should use ducts of the same length so that the air is evenly distributed. Otherwise, the air will tend to flow through the shortest or least twisted ducts

In the example in figures 4 and 5 (front and rear view) the air duct is an equal length totaling 8 meters, or in other words the pipes (**B**) will have a length of approximately 4 meters each. In the case of ducts with different lengths, the total must always be maximum 8 meters (example 3 + 5 meters). In this case the heat will spread through the rooms in an uneven manner.

The recirculation of air in the room occurs using the perforated sheet metal placed in the rear of the stove **C** and the holes placed on the metal sheet bottom

It is possible to choose the volume of air you wish to discharge from the front part and from the rear part of the stove in an independent manner, by adjusting the ventilation power directly with the remote control.

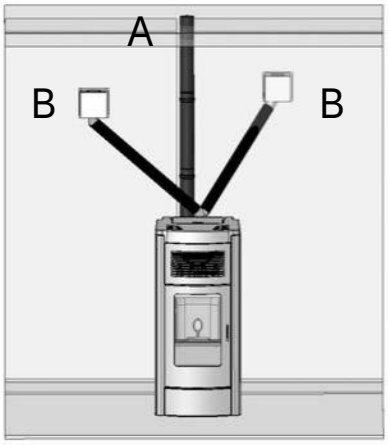


Figure 4 – Front view of air outlet system

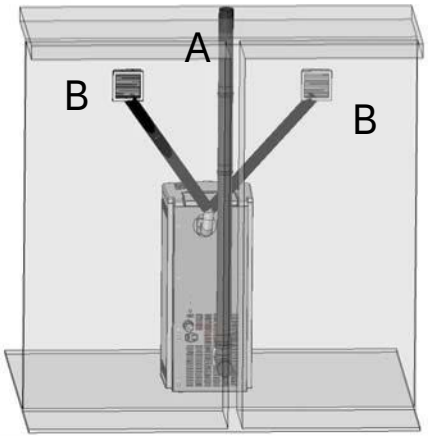


Figure 5 – Rear view of air outlet system

3.4. INSTALLATION OF CERAMIC CLADDING FOR SUITE AND CLUB

It is advisable to place small felt pads on the ceramics where these touch the metallic parts of the stove structure and in the contact between the ceramic.

3.4.1. Assembly of the lower panel – Suite and Club Stoves

The stove is delivered with all the ceramics packed. Therefore, before assembling the side tiles and the top, it is necessary to insert the lower panel.

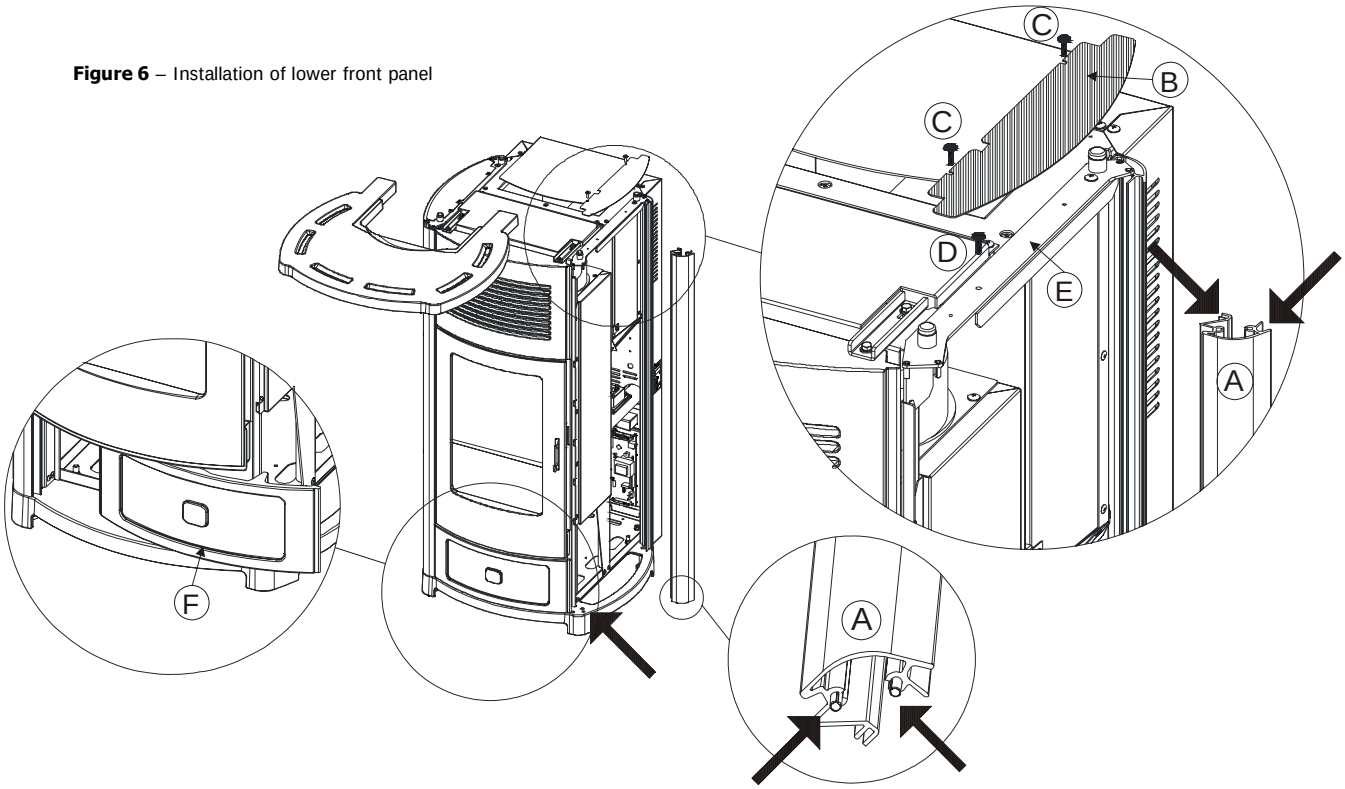
Proceed in the following way:

- Remove the micro-perforated sheet metal grill **B** on the right side (handle side) on the upper part by removing the two screws **C**.
- Remove the screw **D** on the sheet metal **E** in a way that the profile **A** is no longer locked.
- At this point slightly lift the sheet metal **E** and remove the profile **A**.
- To remove the profile **A** lift it (sliding it from the base) and tilt it slightly in a way that the plugs inserted on the base come out.
- Take the lower panel **F** and insert it from the right (handle side) towards the left in a way that it enters exactly in the housings
- Reinsert the profile **A** making the plugs enter the case, and lift the sheet metal **E** in a way to realign the profile "**A**". Work in a way that the upper plugs of the profile "**A**" are inserted in the housings of the sheet metal "**E**".

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

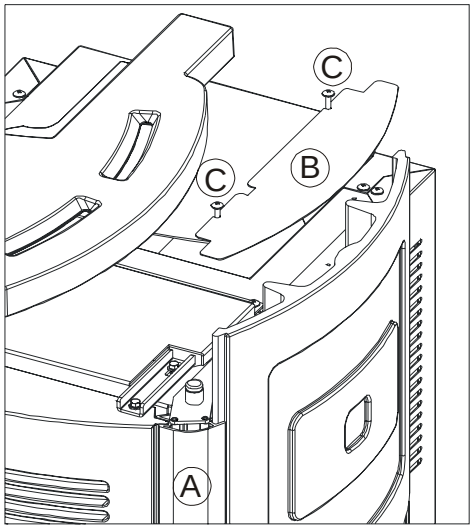
- With the screw **D** close the sheet metal **E** that keeps profile **A** **locked**
- Before refitting the grill **B** with the two screws **C,** also insert the side tiles (See par.3.4.2)

Figure 6 – Installation of lower front panel



3.4.2. Installation of side tiles

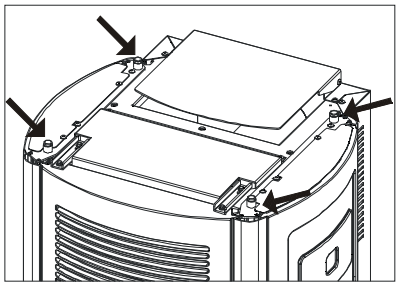
Figura 7 – Installation of side tiles



Remove the micro-perforated grill **B** and insert the three side tiles, making them slide from the top towards the bottom on the runners of the profiles **A**. On the upper and lower part of the tile it is advisable to place small felt pads. Level the bubbles of the tiles. At this point it is possible the retighten the micro-perforated grill **B** to the structure and position the ceramic top.

3.4.3. Installation of ceramic top

Install the top by setting it on the four upper protuberances of the stove. The part underneath is provided with four small cavities at the rubber supports indicated in the figure.



Supports for installation of ceramic top

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

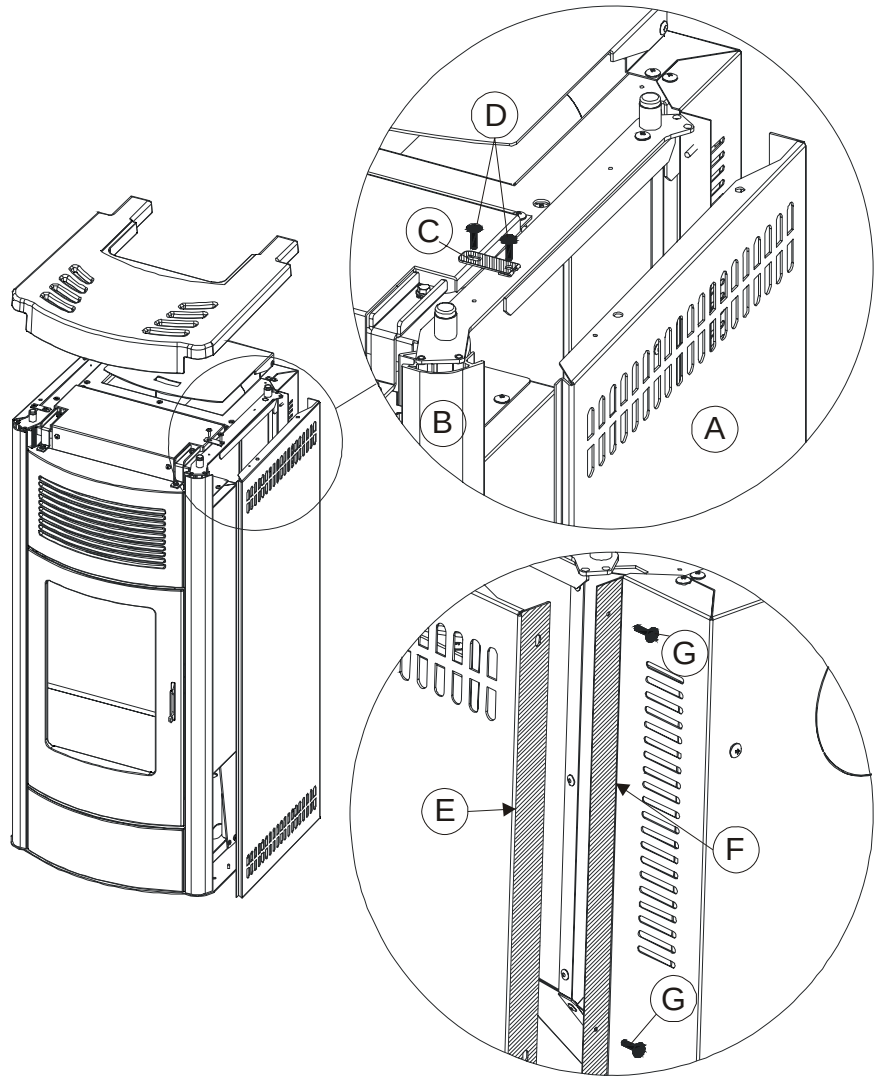
3.4.4. Assembly of sides on the MUSA stove

Remove the cast iron top, take the sides **A** (one for the right side and one for the left) and insert them on the runners of the profile **B** paying attention that the rear part of the side **E** (the one with a 90° bend) overlaps with the sheet metal bend of the structure **F** and that the lower part of the side enters in the plugs on the base.

Take the plate **C** provided and fix it with the two screws **D**, on the upper part in correspondence to the structure and the side.

The rear side must be fixed to the stove's structure using the four screws **G** provided.

When both steel sides **A** are assembled, replace the cast iron top.



REAR VIEW

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

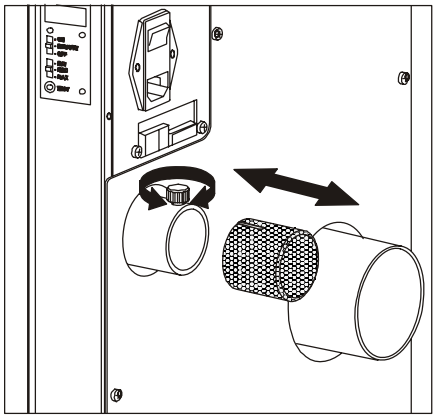
3.5. INSTALLATION OF AIR FILTER

Before placing the stove near the wall for connection to the flue pipe and to the electrical mains, install the air filter provided with the stove.

The cylindrical filter is composed of a metallic net and is included with the accessories (along with the glove, hook, instructions, and so on).

The filter must be inserted on the air inlet pipe Ø 5 cm.

To remove it, slightly loosen the screw with the knob on the air inlet, insert the filter matching it with the filter groove with the screw of the knob and then secure it by tightening the knob.



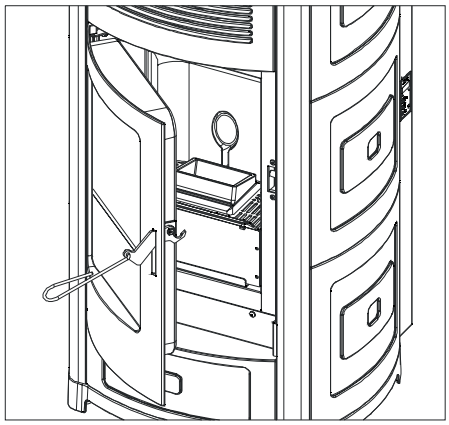
Installation/removal of air filter

ATTENTION!

Never operate the stove without the air filter. MCZ shall not be held liable for damage to internal components if this instruction is not followed.

3.6. OPENING/CLOSING OF ATHOS STOVE DOOR

The door is opened with the hook on the door, which must be lifted using the cool hand provided.



Opening/closing the door

ATTENTION!

In order for the stove to operate correctly, it is essential that the door be closed completely.

3.7. MAKING THE ELECTRICAL CONNECTIONS

Connect the supply cable first at the rear of the stove and then to an electrical outlet on the wall.

The main switch located on the rear of the stove should be switched on only when you want to light the stove.

Electrical connection of the stove

When the stove is not being used, it is advisable to keep it unplugged.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

4. OPERATION

4.1. PRE-LIGHTING WARNINGS

Do not touch the stove during the first lighting, as it is during this phase that the paint sets. If you touch the paint, you may expose the steel surface.

If necessary, touch up the paint with the aerosol spray in the original colour (see the section "Accessories for pellet stoves").

It is good practice to provide plenty of ventilation in the room during the initial lighting, as the stove will give off a small amount of smoke and smell of paint.

Do not stay near the stove, and as previously mentioned, ventilate the room. The smoke and the smell of paint will vanish after about one hour of operation. There are no health risks involved.

The stove will be subject to expansion and contraction during the stages of lighting and cooling down, and may therefore make slight creaking noises.

This phenomenon is absolutely normal, the structure being made of sheet steel, and must not be considered a fault.

It is extremely important to be sure not to take the stove to full heat straight away, but to bring it gradually up to temperature.

If in manual mode, use low heating powers (for example 1^a-2^a-3^a). During subsequent use, you will be able to make use of all available heating power (e.g. 4^a-5^a), but remember not to keep the stove running on full power for more than 60-90 minutes.

In this way you will avoid damage to the ceramic panels, the welds and the steel structure.

At first lighting the stove is already in manual mode. At first, it is advisable to use the only low and medium heating levels (from first to third power level).

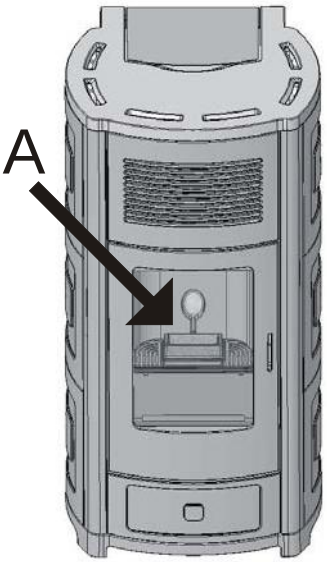
Do not demand full heating performance straight away!

Try to get familiar with commands given from the control panel or remote control.

Try to memorize the messages that the stove provides on the display of the remote control.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

4.2. PRE-LIGHTING CHECK



Check that all the safety conditions described above have been met.

Make sure you have read and completely understood the contents of this instruction booklet.

Remove any components which might burn from the firebox and from the glass (various instructions and adhesive labels).

Check that the grate **A** is properly positioned and rests correctly on the base.

After long periods of disuse, remove from the hopper (**using a vacuum cleaner with an extension**) any remains of pellets which have lain there for some time, since they may have absorbed moisture, which changes their original characteristics and makes them unsuitable for burning.

4.3. LOADING THE PELLETS

Fuel is loaded from the upper part of the stove by opening a door. Pour the pellets in the hopper; when empty it holds almost two sacks (about 25 kg)

This is easier if performed in two steps:

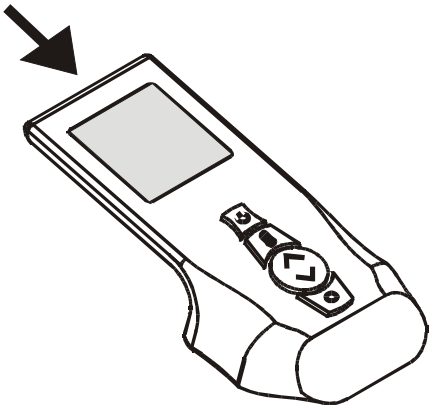
- Pour half of the contents into the hopper and wait for the fuel to settle on the bottom.
- Then pour in the rest

Never remove the protection grille in the hopper. When filling, do not let the sack of pellets touch any hot surfaces.

Do not place any type of fuel in the hopper other than pellets that are compliant with the specifications provided previously.

4.4. LCD REMOTE CONTROL

4.4.1. General characteristics of the LCD remote control



Position of the room temperature probe

The stoves are mainly controlled by the remote control or, in case of emergency, from the small rear panel.

The radio frequency LCD remote control lets you take full advantage of all the features of the stove, adjust all of the operating parameters, set the timer, but most of all continuously monitor the room temperature so as to suitable control the stove's operation.

In fact, the temperature sensor is built right into the remote control. This allows more precise measurement of the temperature in the room to be heated wherever the user wants, and without the inconvenience and limitations of wired thermostats.

The remote control has bright back-lighting which is activated by simply pressing a key.

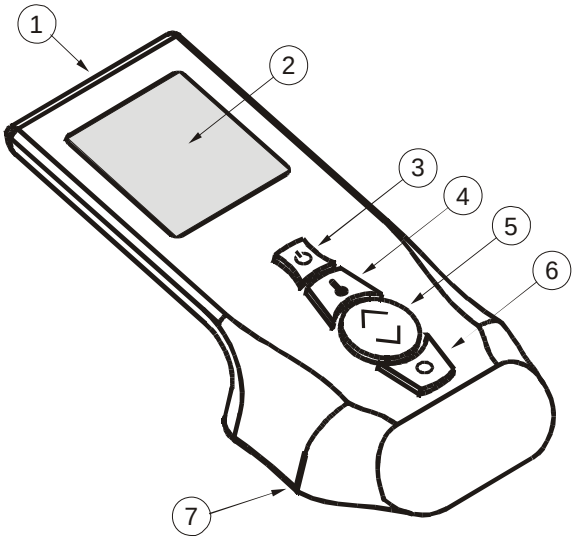
Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

Keep the remote control away from direct heat and water.

It is advisable to keep it out of the reach of children.

The remote control should always be kept near the stove (within a radius of 5 m) so that correct room temperature values are transmitted. If the stove does not receive any input from the remote control for at least three hours, it will start emitting periodic acoustic signals to inform the user that the remote control is too far away or that the batteries are dead. The display of the emergency panel will show the alarm A10. In this alarm condition, the stove will continue working. To eliminate the alarm, just move the remote control nearer to restore normal operating conditions.

4.4.2. LCD Remote control

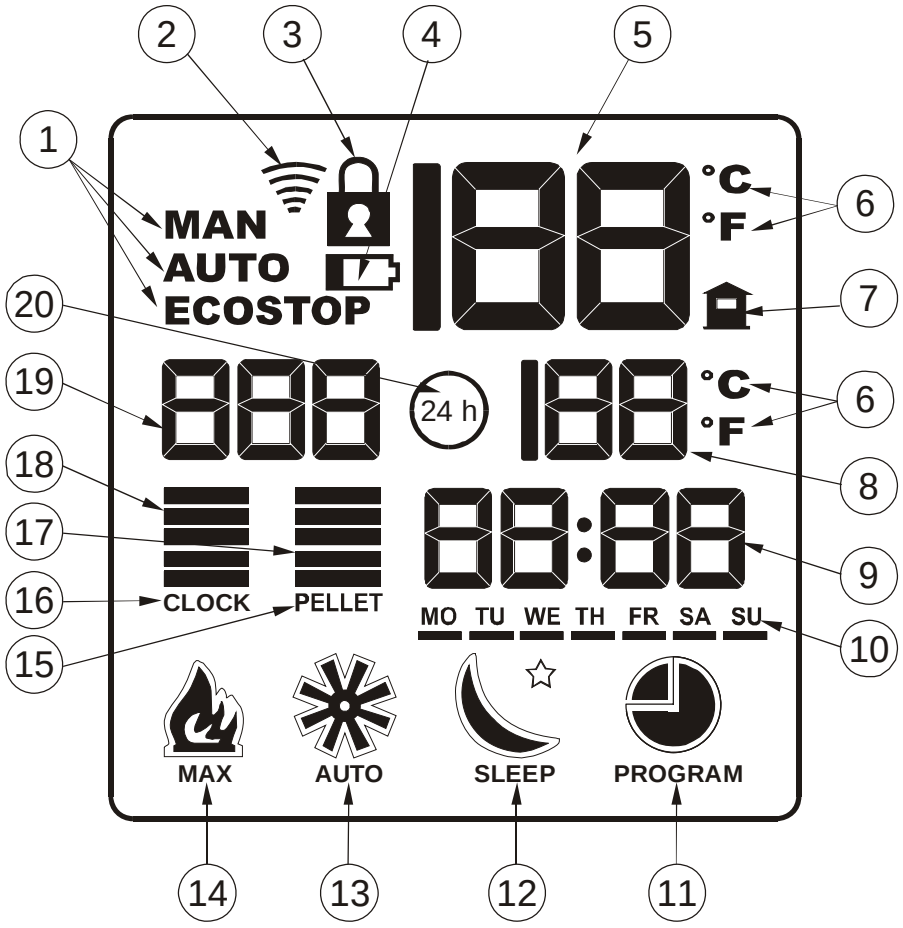


KEY

1. Position of the room temperature probe
2. Back-lit LCD
3. On/off button. By pressing this button in combination with others, you can access other menus such as the one for setting the current time.
4. Button to select operating mode (MANUAL – AUTOMATIC – AUTOMATIC WITH ECO-STOP). By pressing this button in combination with others it is possible to access other menus such as the menu to set the current time or to customise the timer P99.
5. Button for scrolling up or down to adjust ventilation and flame power, and any other adjustment.
6. The MENU button lets you access setting menus for ventilation, SLEEP mode and TIMER
7. Support base that contains the battery compartment

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

4.4.3. Remote control display



KEY

1. Icons that indicate the operating mode of the stove (MANUAL – AUTOMATIC – AUTOMATIC WITH ECO STOP)
2. Icon for data transmission to stove
3. This icon, if on, indicates that the keyboard is locked (provided to prevent accidentally pressing keys)
4. If this icon is on steady it means that the batteries need to be replaced.
5. This icon shows the temperature in the room where the remote control is, by means of a sensor inside the remote control
6. Unit of measure selected to display set/measured temperature (degrees Celsius – Fahrenheit)
7. This icon appears with the room temperature measured by the sensor in the remote control
8. Temperature set by the user, which is to be reached in AUTOMATIC mode. In MANUAL mode this signal will be off.
9. Internal clock. It can temporarily be used to provide a countdown if the SLEEP function is active.
10. Icons that indicate the current day (in English). When setting the personalized TIMER, the bars underneath, if on, indicate that for that day certain time periods have been activated
11. Icon that indicates the TIMER function. If completely off, the TIMER is deactivated. If only the border of the icon is on, the TIMER is active. If the icon is completely on, it indicates TIMER setting mode.
12. Icon that indicates the SLEEP function. If completely off, SLEEP is deactivated. If only the border of the icon is on, SLEEP is active, meaning that the stove will shut off at the end of a countdown set by the user and visible in icon no. 9. If the icon is completely on, it indicates SLEEP setting mode.
13. Icon for ventilation which allows setting of the speed of the hot air fan. If the message AUTO is also on, it means that ventilation is connected to the power.
14. Icon of the flame that allows adjustment of the flame to one of five power levels. If the flame is at power setting 5, the message MAX will also appear.
15. This icon, if active, indicates that it is possible to adjust the downloading of the pellets(specialized technician only)
16. This icon, if active, indicates that it is possible to adjust the time that appears in icon no. 9
17. These bars indicate the ventilation power: 1 bar = 1st speed; two bars = 2nd speed;...five bars = 5th speed
18. These bars indicate the flame power: 1 bar = 1st power; two bars = 2nd power;...five bars = 5th power These bars appear only if the stove is in MANUAL operation mode
19. This icon is necessary for the selection of the weekly programme when setting the TIMER. It is also used to select the daily programmes in the personalized timer programme.
20. When setting the TIMER, if this icon is on together with no. 19, it indicates that you are choosing a personalized weekly programme (which requires the insertion of daily time periods -> 24h)

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

PLEASE NOTE:

Icons 11, 12, 13, and 14 may be on in two different ways:

- **COMPLETELY LIT (ICON COMPLETELY BLACK)**
- **ONLY BORDER OF ICON LIT**

When **the icons are completely lit** it means that work is being carried out in this function.

Example: if the symbol of the fan is completely on, it means you are changing the hot air fan speed via button **no.5.**

If **only the borders of the icons** are lit it means that the function is active but cannot be modified except by entering the corresponding item from the menu. When you enter the corresponding menu, the icon comes on completely (see above)

Example: if only the border of the icon for the fan is on, it will not be possible to modify the fan speed by pressing button no.5 but the function is active because the fan is operating (if the stove is on). In order to change the fan speed, simply access the menu that allows this adjustment and causes the icon to light up completely.

4.4.4. Type of batteries and replacement

The batteries are housed in the lower part of the device at the support base.

To substitute the batteries, it is necessary to remove the cover and extract or insert the batteries following the symbols printed on the remote control and the battery itself.

Operation requires **3 1.5 V Alkaline Micro LR03 (AAA) batteries.**

Dead battery indicator

Used batteries contain metals which are harmful for the environment; they must therefore be disposed of separately in the special containers.

Via icon **no. 4**, the remote control informs the user when the batteries are nearly dead. If the icon showing an empty battery appears, it means that the batteries are nearly dead and that the remote control is about to shut off.

If the remote control shuts off due to dead batteries, the stove can only be controlled from the rear emergency panel (see paragraph 4.5). Only a few essential functions remain active during emergency operation: power on, power off and manual adjustment of three levels of power/ventilation.

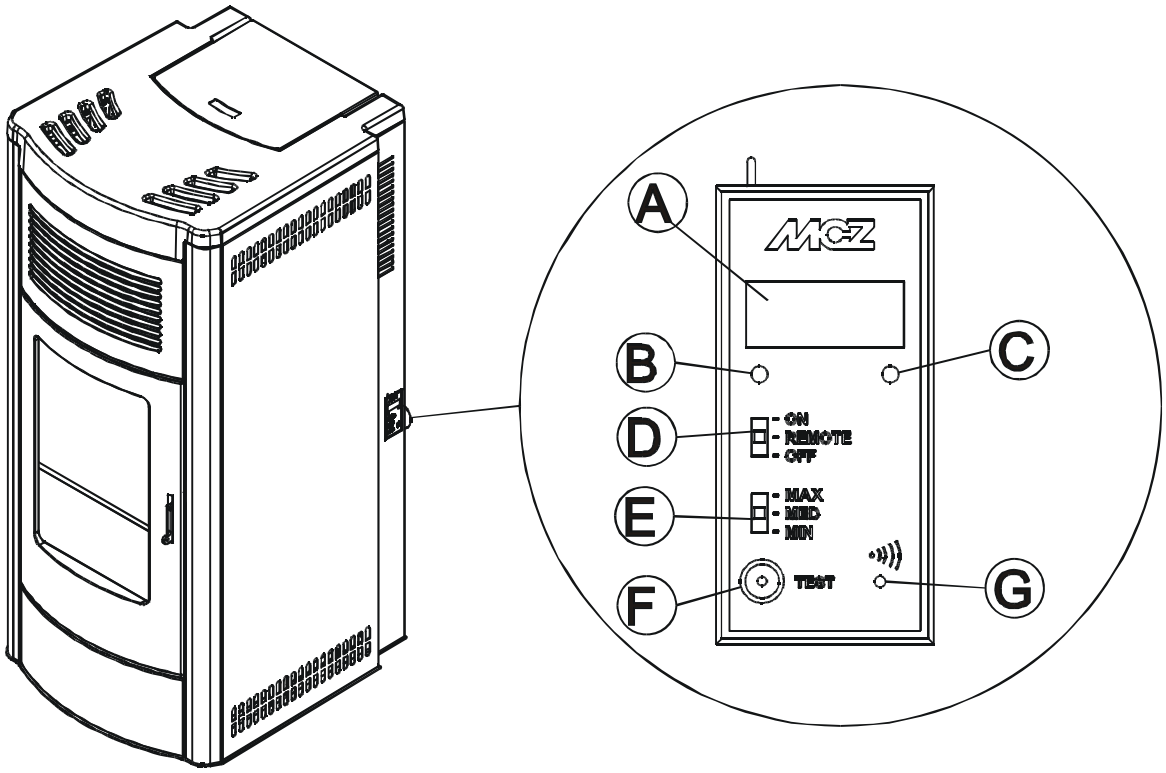
The batteries provided may have a limited lifespan.

When replacing the batteries, ensure correct polarity by observing the symbols on the internal compartment of the remote control.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

4.5. EMERGENCY PANEL

At the right rear of the stove, there is an emergency panel. It was designed to diagnose any operating anomalies. It is also used to control the stove if the remote control is not working.



KEY

A. Three figure display which indicates a series of information about the stove, as well as the identification code for any operating anomaly.

B. **GREEN** LED to indicate:
- OFF = Stove off
- FLASHING = Stove in lighting phase
- ON STEADY = Stove on

C. **RED** LED to indicate:
- OFF = Stove on
- FLASHING SLOWLY = Stove shutting down
- FLASHING RAPIDLY = Stove in alarm status (accompanied for 10 minutes by a beep)
- ON STEADY = Stove off

D. Three-position selector for function
- OFF = Stove shut off manually in absence of remote control
- REMOTE = Stove can be controlled **only** by remote control
- ON = Stove turned on manually in absence of remote control

E. Three-position selector for selection of power
- MIN = Selector to run the stove at minimum power with no remote control and with selector **4** in ON position
- MED = Selector to run the stove at medium power with no remote control and with selector in ON position
- MAX = Selector to run the stove at maximum power with no remote control and with selector in ON position

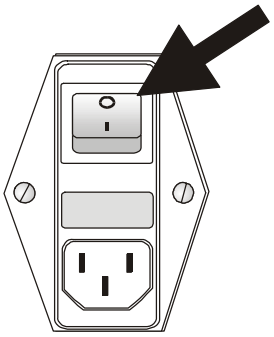
F. Push button for diagnostics of stove operating status

G. button to connect the stove to a new remote control (by means of a procedure explained below)

TO OPERATE THE STOVE WITH THE REMOTE CONTROL, SELECTOR "D" MUST BE <u>PLACED</u> ON "REMOTE"

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

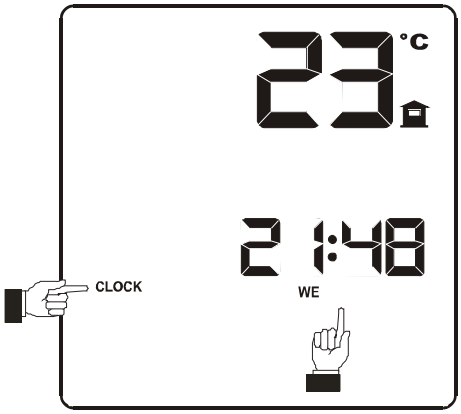
4.6. SETTINGS TO CARRY OUT BEFORE FIRST LIGHTING



Once the power cord is connected to the rear part of the stove, place the switch, also on the rear, to position **(I).**

The lighted button will come on and also LED **C** of the emergency panel will come on steady red.

4.6.1. Setting current day and time

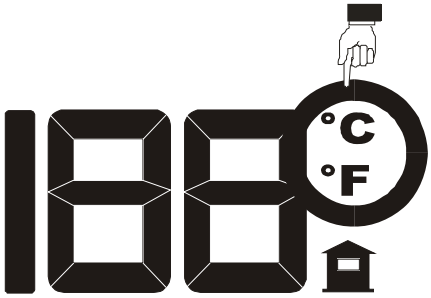


Simultaneously press buttons **4** and **6** of the remote control **for 3 seconds** with the stove on to access the menu for setting current day and time.
When the message **"CLOCK"** appears it is possible to use button **5** to select the current hour and confirm it with button **6**, then the minutes and confirm them with button **6** and then the day. Upon completion, pres key **6** to confirm and exit the menu.
The following abbreviations are used for the days of the week:

MO = Monday ➔
TU = Tuesday ➔
WE = Wednesday ➔
TH = Thursday ➔
FR = Friday ➔
SA = Saturday ➔
SU = Sunday ➔

If the keypad is not touched for 7 seconds, the remote control will automatically exit time setting mode and will confirm the last data inserted.

4.6.2. Setting the temperature unit of measure



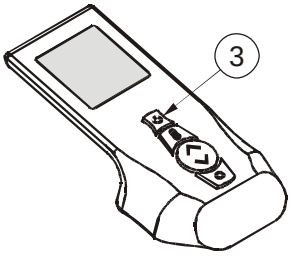
The temperature unit of measure can be set to either Fahrenheit or Celsius.

Only with the stove off, press button **4 for at least 5 seconds** to select the unit of temperature measurement, either Celsius (**°C**) or Fahrenheit (**°F**).

The default setting of the remote control is degrees Celsius (°C)

4.7. FIRST LIGHTING

4.7.1. Turning on/off from the remote control



The stove -- and as a result the display of the remote control -- is turned on and off by **pressing key 3 on the remote control for 1 second.**

After a start-up phase that lasts about 15 minutes, the stove will come up to full operating power.

After the stove is shut down by pressing button **3**, the cooling-off procedure begins. This includes interruption fuel loading, cleaning of the grate continuation of ventilation until the stove is sufficiently cold.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

This phase may last from 20 to 40 minutes depending on how long the stove was lit and where it is located.

4.7.2. Note on first ignition

The first attempt at ignition may not be successful, since the feeder screw is empty and it is not always able to fill the grate with required amount of pellets in time to ensure normal ignition

CANCEL THE ALARM (A02) CONDITION FROM THE EMERGENCY PANEL (see paragraph 4.16), REMOVE PELLETS IN THE GRATE AND REPEAT LIGHTING

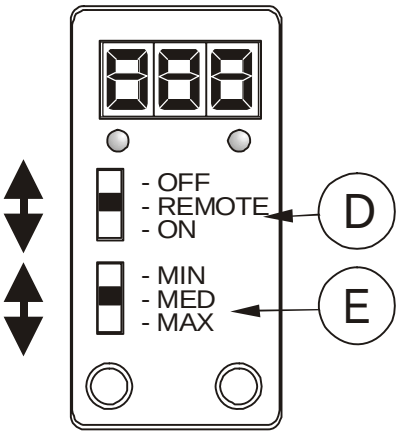
After repeated attempts at lighting, if there is no flame even though pellets are flowing normally, check that the grate is correctly positioned. It must be **placed where it adheres perfectly to its housing and free of any ash incrustations**. If after this check no abnormalities are found, it means that there may be a problem with the stove components or that installation may not have been carried out correctly.

REMOVE THE PELLETS FROM THE BURNER AND CONTACT AN AUTHORISED MCZ TECHNICIAN.

4.7.3. Start-up/shutdown from emergency panel

If the remote control is defective or the batteries are dead, you can temporarily run the stove from the rear emergency panel.

In this configuration, the stove can operate only in manual mode and with possibility to select from **3** levels of power.



- **LIGHTING THE STOVE WITHOUT THE REMOTE CONTROL**

  To light the stove, place selector **"D"** to **ON.** At start-up the red LED goes off and the green LED will start flashing until the start-up phase is complete. At full operating power the green LED will come on steady.

- **SELECTING POWER WITHOUT REMOTE CONTROL**

  You can choose from three levels of heating power:

  MIN-MED-MAX (selector **"E"**)

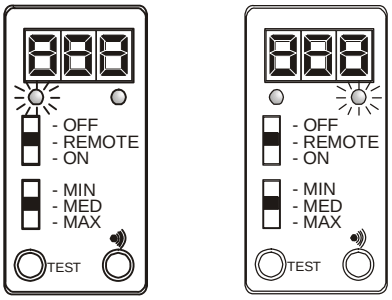
  MINIMA power is the 1st power;

  MEDIUM power is the 2nd power;

  MAXIMUM power is the 3rd power;

- **SHUTTING DOWN THE STOVE WITHOUT THE REMOTE CONTROL**

  To shut down the stove, place selector **"D"** to **OFF.**



Once the remote control is working again, remember to put selector "D" back in the "REMOTE" position. Otherwise the stove will disregard inputs from the remote control.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

4.8. OPERATING MODE

SOLAR-GEA stoves have two operating modes: **MANUAL** and **AUTOMATIC**.

4.8.1. Manual and automatic

The stove can operate in one of these two different operating modes.

MANUAL mode allows only adjustment of the flame from power 1 to power 5, ignoring any ambient temperature measurement. This mode is indicated by the message **MAN** on the display of the remote control (icon 1)

AUTOMATIC mode, on the other hand, lets you set the desired temperature in the room of installation. The stove will control its power autonomously in order to reach and maintain the established temperature in the room. This mode is indicated by the message **AUTO** on the display of the remote control (icon 1)

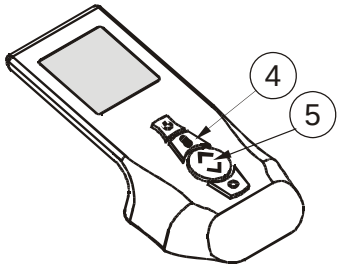
With this mode you can also use an advanced function called **ECOSTOP** which is described later (*paragraph 4.8.4.*)

To choose the mode, press button **4**

At each lighting, the stove automatically sets to the operating mode that it was in the last time it shut down.

4.8.1.1. *Changing from manual to automatic mode*

To change from **MANUAL** to **AUTOMATIC** operating mode, just press the button **no. 4 .** The message **MAN** will go off and the message **AUTO** will come on. The flame power indicators and the flame icon will disappear. The numerals will come on for setting the desired temperature (icon 8)



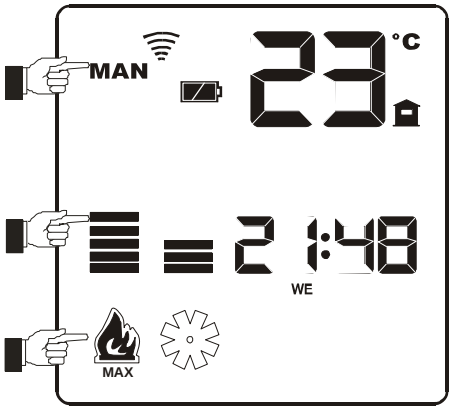
4.8.2. Manual mode

In this mode you can only vary the thermal power provided by choosing the flame power.

Button **4** of the remote control is used to select **MANUAL** mode. On the display this is indicated by the message **MAN** and the flame symbol. In this mode, button **5** is used to adjust the 5 heating powers of the stove.

Press the upper part of button **5** to increase power. Press the lower part to decrease power. This variation is indicated by the bars located above the flame symbol. Upon reaching the 5th power level, the message **MAX** appears under the flame symbol. This indicates that maximum performance of the stove has been reached.

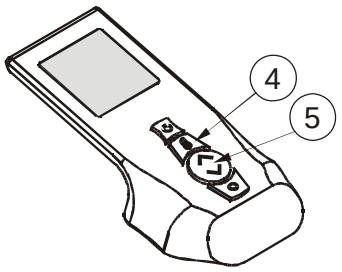
In this operating mode, the flame symbol is completely on.



Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

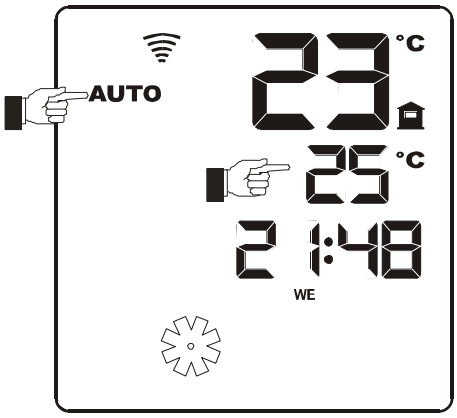
4.8.3. Automatic mode

Whereas **MANUAL** mode lets you simply choose the thermal power provided with no variation of operation over time, **AUTOMATIC** mode lets you set a temperature to be reached in the room. In this operating mode the stove will automatically vary the thermal power provided so as to keep the temperature in the room constantly at the set value.



Press button **4** on the remote control to select **AUTOMATIC** mode. This will be shown on the display by the message **AUTO**. In this mode, by pressing button **5,** only the desired room temperature is adjusted.

Press the upper part of button **5** to increase the selected temperature. Press the lower part to decrease the temperature. The desired temperature is indicated by the figures in icon no. 8



The remote control regulates the operation of the stove by constantly comparing the room temperature (indicated at upper right on the display and specifically the larger figures with the cassette symbol near them) with the temperature set by the user.

Upon reaching the desired temperature in the room, the stove will gradually go to minimum power. If instead the room temperature drops below the set limit, the stove will gradually come back up to maximum hearing performance.

Room temperature is measured by the remote control via a sensor inside of it. Therefore, the stove will always attempt to reach the temperature based on the measurements of the remote control sensor.

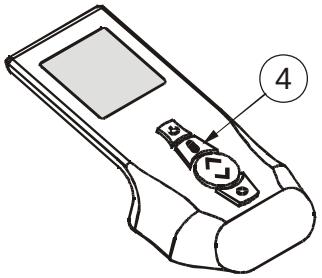
Thanks to this characteristic, the remote control can be considered a mobile external thermostat, with a range of about 5 m (with batteries charged).

Since the remote control acts as an external thermostat, it is necessary to for the remote control and the stove to communicate with each other. It is therefore suggested to keep it in the same room as the stove, within a radius of 8 metres, but not so close that it will be affected by the heat from the stove.

It is advisable to keep the remote control in the room where the stove is installed so that the stove and remote control can communicate with each other.

If the remote control is moved out of range from the stove, the stove will no longer have any temperature feedback. It will therefore continue operating in the same manner as was set by the last transmission from the remote control.

4.8.3.1. *Changing from automatic to manual mode*



To change from **MANUAL** to **AUTOMATIC** mode, press button **4** so that the remote control display shows the message **MAN** and the bars for the adjustment of flame power.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

4.8.4. Automatic mode with ECO-STOP

This mode changes stove operation in **automatic mode.** Upon reaching the temperature set by the user, the stove goes to power 1 for a short period of time. Then, if the temperature remains constant and above the set temperature, it shuts down. The stove comes back on automatically only when the room requires heat again, but not before a period of time has passed for the stove to cool off. This option is advisable only if the stove works in highly insulated rooms or where there is low heat dispersion over time.

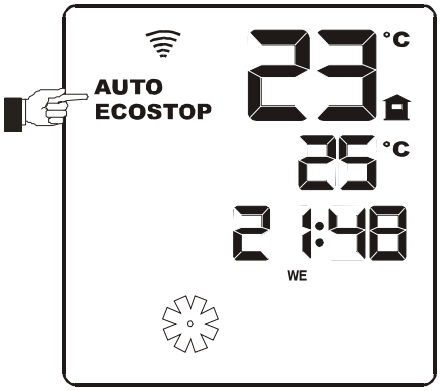
Example of operation in ECOSTOP mode

If the room temperature detected by the sensor of the remote control is 15°C and the set temperature is 20°C, the stove will follow a pre-established ramp up to the 5th power. Once 20°C is reached, it goes into standby mode. When the room temperature drops below the value set on the remote control (for example 18°C) and a sufficient shutdown time has elapsed, the stove will come back on automatically and continue running until again reaching 20°C. If the temperature read by the sensor in the remote control remains above the value set on the thermostat (for example 20-21°C) the stove will remain off.

In this mode, lighting can be carried out by the user by resetting the thermostat temperature to a value greater than that in the room, or by shutting down the stove by pressing button **3** for a few seconds and then pressing the same button to re-light the stove.

The "**ECO STOP**" mode does not need to be reset as it remains in memory from the last use.

4.8.4.1. *Activation /de-activation of ECO-STOP mode*



This mode makes it possible to optimize stove consumption in well-insulated rooms.

This operation can be selected whether your are in manual or automatic mode by pressing and holding button **4 for 5 seconds**.

The display of the remote control will show the message **AUTO** along with the message **ECOSTOP**.

To disable the ECO-STOP function follow the same procedure.

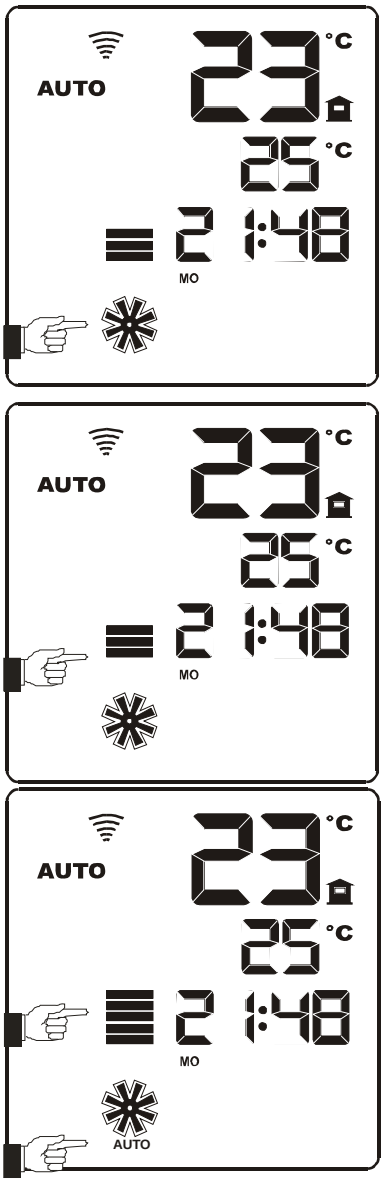
Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

4.9. HOT AIR VENTILATION

4.9.1. Menu navigation

To navigate across the menu items press the key 6 repeatedly. Changes are made using the key 5. By quickly pressing key 3 or simply by waiting for 7", the remote control leaves the relevant menu item and confirms any changes made.

4.9.2. AIR Version



The stove are equipped with an internal fan for expulsion of heating air. It can be set to 5 different speeds at any time regardless of the whether the stove is in manual or automatic mode.

To access the fan setting menu, press the button **MENU 6** once and the icon for ventilation **will come on completely.** In fact, normally only the border of the symbol appears, since to access the setting it is necessary to access the corresponding menu.
5 speeds can be selected as well as an automatic function.
When entering the ventilation adjustment, the corresponding icon will come on completely, showing the set level.
To select the speed, after pressing button **6**, press button **5** up or down to increase or decrease ventilation power. Variation of ventilation can be seen by the number of bars above the fan symbol which will increase or decrease as a result.
In addition to **5th speed** there is an additional selection called **AUTO** function. This function lets you connect the fan speed to the flame power. With this option selected, the stove will independently select the fan speed based on the flame power.
This option can be selected simply by again pressing the up arrow button of button **5** once you are at the 5th ventilation speed. The display of the remote control will show the message **AUTO** under the fan symbol.

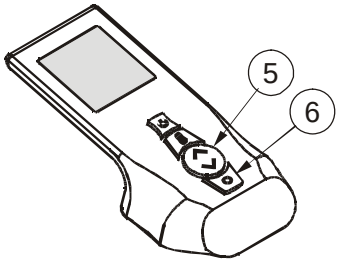
Example with ventilation set to AUTO:

If the flame is at power 3, the fan will automatically set to power 3. If the flame is at power 1, the fan will automatically set to power 1, and so on.

In power 4 and 5 the automatic ventilation always maintains level 3, to make the use easier. Ventilation 4 and 5 can be set only manually.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

4.9.3. COMFORT AIR Version



In this version the stoves are fitted with two fans that channel the hot air to the front and the rear. As a general rule, **"fan 1"** is the one letting air out at the front, and **"fan 2"** is the one letting air out at the rear. The adjustment of the two fans summarised in the table below is independent and is set using the remote control.

Type	Fan speed					
Fan 1	0	1	2	3	4	5
Fan 2	0	1	2	3	4	5

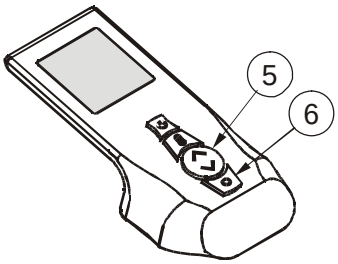
35 POSSIBLE COMBINATIONS
THE COMBINATION 0-0 IS NOT ADMITTED

The procedure is similar to the AIR version. Activate the ventilation icon using the key (**6)** of the remote control. Number 1 will appear above the bars symbol (**17)** indicating the ventilation speed. This indicates that the "fan 1" is being programmed. Adjust the intensity using the button (**5**). Press the key (**6**). Number 2 will appear above the bars, indicating that the "fan 2" is being programmed. Adjust the intensity using the button **(5).**

If the keypad is not touched for 7 seconds, the remote control will automatically exit fan setting mode and will confirm the last inserted setting.

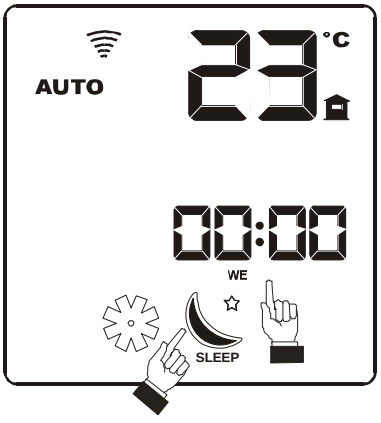
If a low ventilation is set, the stove power is self-limited to avoid the overheating of the structure and of the air coming out of the room fans.

4.10. SLEEP FUNCTION



The purpose of this function is to make it faster to select a programmed shutdown, without the need to programme the stove's internal timer.
To explain the **SLEEP** function in simple terms, it might be said that it allows the user to set a countdown starting from a **minimum of 15 minutes up to a maximum of 8 hours**, after which the stove will shut off.
To set the function, press the MENU button **6** twice so that the icon comes on completely.
There where the current time is normally indicated, **00:00** appears and it is possible to select the duration of the countdown using the button **5**.
Press the up arrow to increase the time in steps of 15 minutes. Press the arrow down to decrease the time in steps of 15 minutes. To confirm, press key **6** again or wait 7 seconds.

After returning to normal operation, instead of showing the current time, the display will show the countdown of time remaining to shutdown.



Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

If the keypad is not touched for 7 seconds, the remote control will automatically exit fan setting mode and will confirm the last inserted setting.

4.11. TIMER

This operating mode, indicated by the symbol on the display, allows programming of automatic start-up or shutdown of the stove.

Normally, the stoves have the PROGRAMMED mode deactivated.

The basic settings in PROGRAMMED mode are:

- **Clock**
- **Current day**
- **Selection of weekly / daily programme**

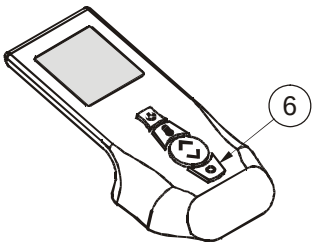
4.11.1. Current date and clock

See *paragraph 4.6.1. and 4.6.2.* to learn how to set the current date and time.

The days of the week are shown on the remote control with the following abbreviations:

MO = Monday ➔
TU = Tuesday ➔
WE = Wednesday ➔
TH = Thursday ➔
FR = Friday ➔
SA = Saturday ➔
SU = Sunday ➔

Setting the current date and time is essential for proper timer operation.



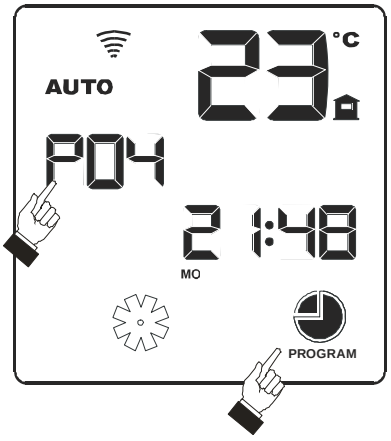
4.11.2. TIMER activation and selection of a programme.

SETTING OF A WEEKLY PROGRAMME

An explanation will now be provided of how **to activate the TIMER function selecting a daily or weekly programme:**

press button **6** several times until the clock icon comes on:

PROGRAM

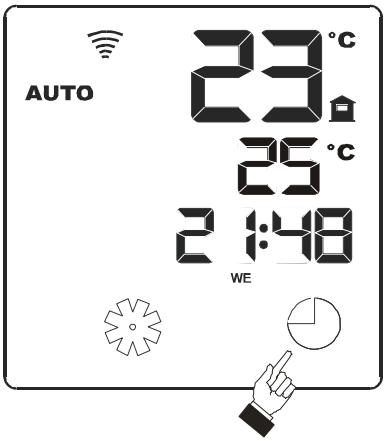


then use button **5** to select from **10 pre-set weekly programmes** in the remote control.

Select from the tables in *paragraph 4.12.* the programme that best suits the heating needs of your home and memorize the programme number on the remote control. If none of the 10 pre-set programmes meets your personal heating needs, you can put together a personalized weekly programme (**P99**) that suits you best (see next paragraph).

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

If the keypad is not touched for 7 seconds, the remote control will automatically exit timer setting mode and will confirm the last inserted setting.



Immediately after choosing the desired timer programme and confirming it with key **6**, you will exit the setting the menu and the timer icon will remain on the display of the remote control with this format:

If this icon remains on the display, it means that a timer programme is active that includes start-ups and shutdowns over the course of a day or week.

ATTENTION!

If the timer function is active, the icon will be on in any operating screen

The TIMER function can be activated/deactivated whether the stove is on or off.

SETTING OF A PERSONALIZED PROGRAMME

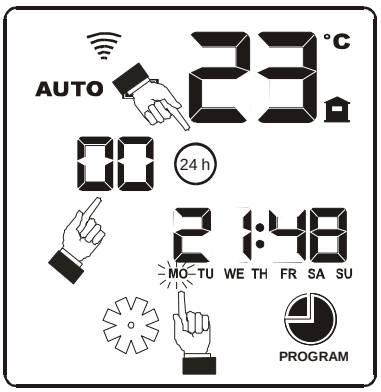
If one of the pre-set weekly programmes does not suit the heating needs for your home, you can choose and combine various daily programmes included in the memory of the remote control to create a personalized weekly programme (called P99).

60 daily programmes can be selected , and you can select a different programme for each day of the week.

To activate this option, proceed as described above for setting a weekly programme, but instead of selecting one of the programmes contained in the table of the weekly programmes (**from P01 to P10**) select the programme **P99**.

Once you have selected programme **P99** press push button **4** to enter daily programming mode. The first day of the week will start flashing (**MO** = Monday).

Use key **5** to scroll the programmes from **01** to 6**0** and select the desired one, after consulting the table in *paragraph 4.12.* When you carry out this type of programming, you will notice that the **24 h** icon also lights up to show that daily rather than weekly programming is being performed.



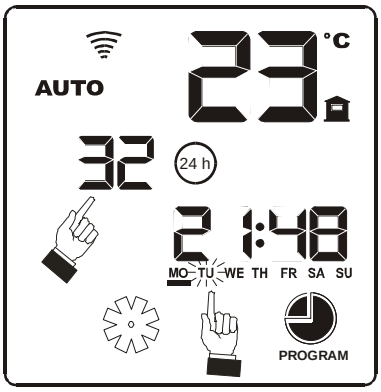
Once the desired programme has been selected for the active day (E.g.: **32** for the day **MO** = Monday), again pres button **4** to proceed with programming of the day **TU** = Tuesday). Notice that as soon as the day **MO** = Monday is confirmed, under **MO** a dash appears to indicate that a daily programme is active for that day.

As soon as the daily programme is confirmed with the key 4, the remote control moves to the next day. Repeat the setting operations described above for all the days of the week.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

If for a given day of the week you do not want to set any programme, select programme 00 and continue with programming. Notice that under that day there is no dash.

Upon completion of programming, **press button 6 or wait 30 seconds** and the remote control will automatically exit the menu, confirming the selections you have made.



If a timer programme is active but the user decides to start/stop the stove in advance, the command given by the user overrides the timer and is carried out. The next command from the timer is obviously disregarded.

Example: if the timer calls for the stove to be started up at 10:00 but the user decides to start it at 9:00, by pressing button 5 the stove will come on. At 10:00, the timer, which was to order start-up, will be disregarded.

The setting defined on the personalised programme is stored in the memory even if the batteries of the remote control are removed and replaced.

IMPORTANT NOTE

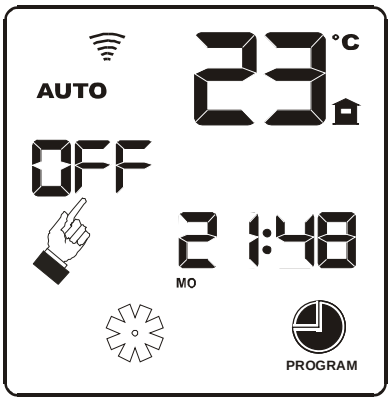
It takes 10 to 15 minutes for the stove to start up, and another 10 to 15 minutes before sufficiently hot air comes out.

Take this into account when setting the start time. Likewise, stove shutdown requires about 30 minutes, during which the heat stored up by the stove is still released into the room.

Keep this in mind for substantial fuel savings.

4.11.3. TIMER de-activation.

To de-activate the timer, access the menu again by means of button **6** until the icon appears, then use button **5** to select:



OFF

Then wait **7 seconds** for confirmation or again press button **6** to confirm.

This de-activates the TIMER.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

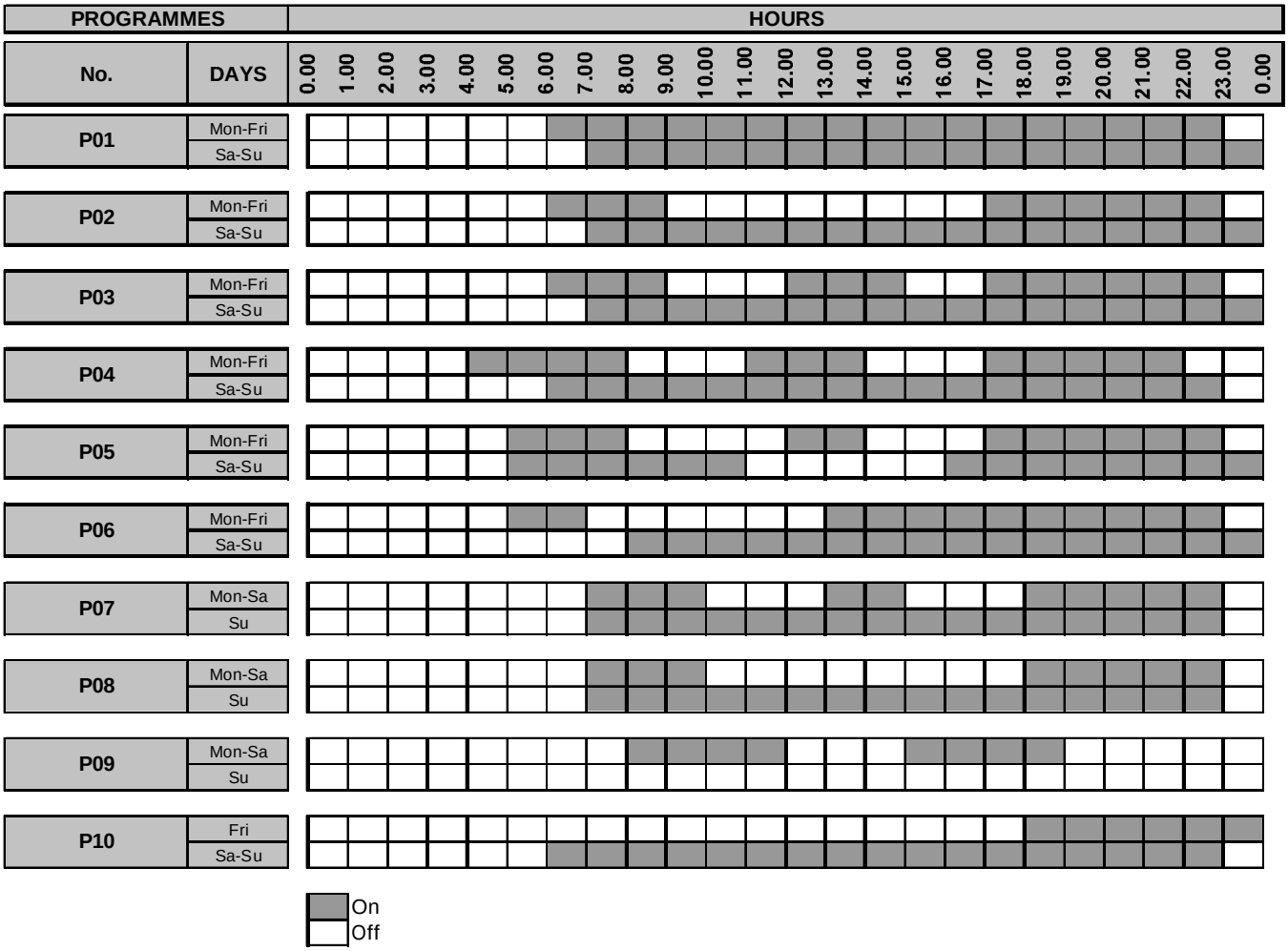
4.12. PRE-SET WEEKLY AND DAILY PROGRAMMES

4.12.1. Weekly programmes

The weekly programmes selected by MCZ and stored in the memory of the remote control were designed to meet the needs of most users who are out of the home during working hours (factory workers, shopkeepers, office workers, shift workers) as well as those who are usually at home (homemakers, senior citizens, etc.).

Also, programming has been provided for those who use the stove in a weekend home (e.g. a home in the mountains) and want to find the home warm when they get there.

If you have even more specific needs which are not met by any of these ten weekly programmes, you can customise weekly programme P99 using one of the 60 different programmes for each single day of the week *(see chapter 4.11.2)*.



Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

4.12.2. Daily programmes

PROGR.	HOURS

N°	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	0.00
00																									
01	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
02								■	■	■															
03							■	■	■																
04						■	■	■	■																
05												■	■	■	■										
06													■	■	■	■									
07													■	■	■	■	■	■	■	■	■	■	■	■	
08															■	■	■	■	■	■	■	■	■	■	
09																			■	■	■	■	■	■	
10																				■	■	■	■	■	■
11						■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
12							■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
13								■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
14								■	■	■		■	■	■	■										
15								■	■	■			■	■	■	■									
16							■	■	■			■	■	■	■										
17							■	■	■				■	■	■	■									
18						■	■	■	■			■	■	■	■										
19						■	■	■	■				■	■	■	■									
20								■	■	■									■	■	■	■	■	■	
21								■	■	■										■	■	■	■	■	■
22							■	■	■										■	■	■	■	■	■	
23							■	■	■											■	■	■	■	■	■
24						■	■	■	■										■	■	■	■	■	■	
25						■	■	■	■											■	■	■	■	■	■
26												■	■	■	■				■	■	■	■	■	■	
27												■	■	■	■					■	■	■	■	■	■
28													■	■	■	■			■	■	■	■	■	■	
29													■	■	■	■				■	■	■	■	■	■
30								■	■	■		■	■	■	■				■	■	■	■	■	■	
31								■	■	■		■	■	■	■				■	■	■	■	■	■	■
32								■	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	
33								■	■	■			■	■	■	■		■	■	■	■	■	■	■	
34								■	■	■			■	■	■	■			■	■	■	■	■	■	■
35								■	■	■			■	■	■	■	■	■	■	■	■	■	■	■	
36								■	■	■					■	■	■	■	■	■	■	■	■	■	■
37							■	■	■			■	■	■	■			■	■	■	■	■	■	■	
38							■	■	■			■	■	■	■				■	■	■	■	■	■	■
39							■	■	■			■	■	■	■	■	■	■	■	■	■	■	■	■	
40							■	■	■				■	■	■	■		■	■	■	■	■	■	■	
41							■	■	■				■	■	■	■			■	■	■	■	■	■	■
42							■	■	■				■	■	■	■	■	■	■	■	■	■	■	■	
43							■	■	■						■	■	■	■	■	■	■	■	■	■	
44						■	■	■	■				■	■	■	■			■	■	■	■	■	■	
45						■	■	■	■				■	■	■	■				■	■	■	■	■	■
46						■	■	■	■				■	■	■	■	■	■	■	■	■	■	■	■	
47						■	■	■	■					■	■	■	■		■	■	■	■	■	■	
48						■	■	■	■					■	■	■	■			■	■	■	■	■	■
49						■	■	■	■					■	■	■	■	■	■	■	■	■	■	■	
50						■	■	■	■						■	■	■	■	■	■	■	■	■	■	
51									■	■	■	■	■				■	■	■	■					
52										■	■	■	■					■	■	■	■				
53												■	■	■	■				■	■	■	■	■	■	■
54				■	■														■	■	■	■	■		
55				■	■											■	■	■	■	■	■	■	■		
56				■									■	■	■					■	■	■	■	■	
57									■	■										■	■	■	■	■	■
58								■	■										■	■	■	■	■	■	
59				■	■								■	■	■										
60							■	■					■	■	■				■	■	■	■			

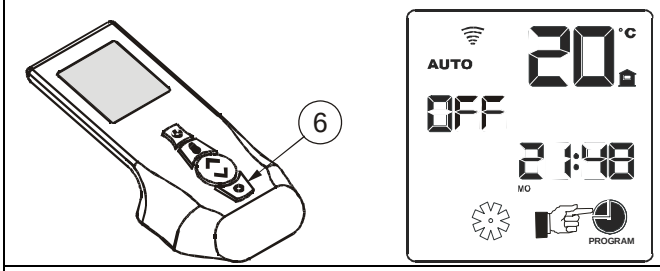
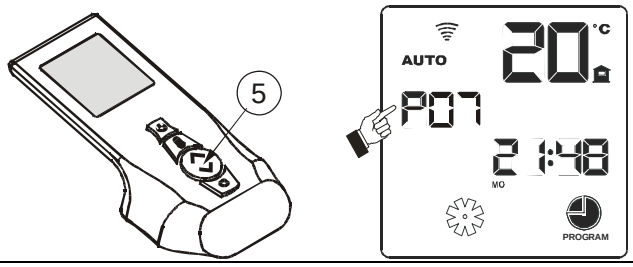
Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

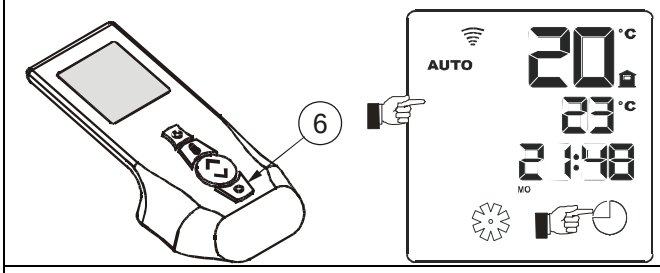
4.13. PRACTICAL EXAMPLE OF WEEKLY/DAILY PROGRAMMING

4.13.1. Setting of a weekly programme

Let's take the example of a normal factory or office worker who starts work at 8:00, comes home for lunch at 12:30 and goes back to work from 14:00 until 18:00.

Among the programmes in the remote control, there is one which best suits the times when the user is in the home. It is **P07** (*see table in paragraph 4.12.1*). This is how to set it:

PHASE 1	PHASE 2
	
press button **6** several times until the clock icon is completely lit.	Press button **5** up to select programme **P07** which was previously selected.

PHASE 3	SUMMARY
	1. Press button **6** until the clock icon appears 2. Select the programme with button **5** 3. Confirm the programme with button **6** or wait 30 seconds, after which the remote control will automatically confirm the selection made and will exit programming. 4. The empty timer icon will remain visible. This means that the programme is set and that from that moment the stove will start and stop on its own.
Confirm the selection by pressing button **6** or wait 30 seconds. The programme is confirmed, the clock icon goes off, only the borders remain visible, and the LED's that indicated the selected programme go off.	

4.13.2. Setting of a daily programme

Let's look at a user who does not have regular daily hours (a free-lance worker, for example), but who generally expects to be at home at the following times:

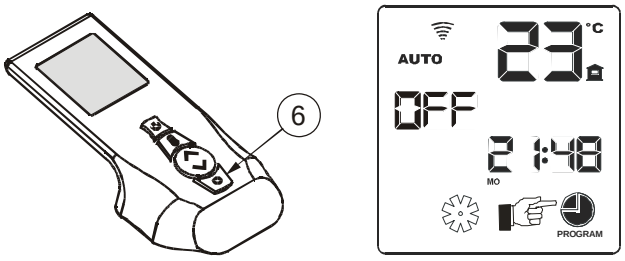
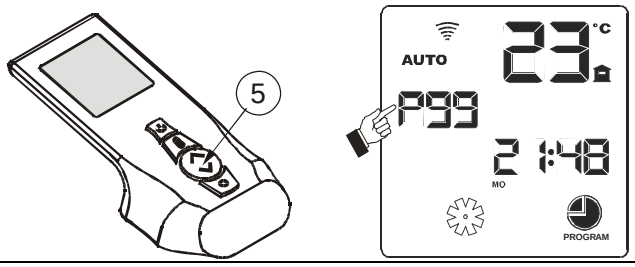
- MONDAY ➔ home until 10:00 and from 17:00 on
- TUESDAY ➔ home until 9:00 and from 12:00 on
- WEDNESDAY ➔ at home all day and does not wish to set any programme
- THURSDAY ➔ at home all day
- FRIDAY ➔ at home until 9:00, from 12:00 to 15:00 and from 18:00 on
- SATURDAY ➔ at home only after 18:00
- SUNDAY ➔ at home only after 14:00

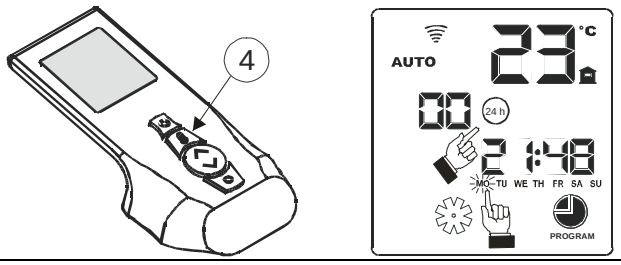
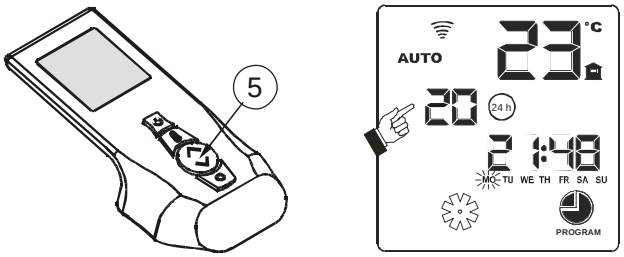
Based on these times, from the table in paragraph 4.12.2 the daily programmes are selected which best suit this routine.

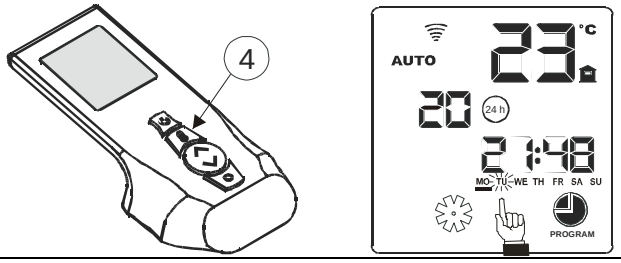
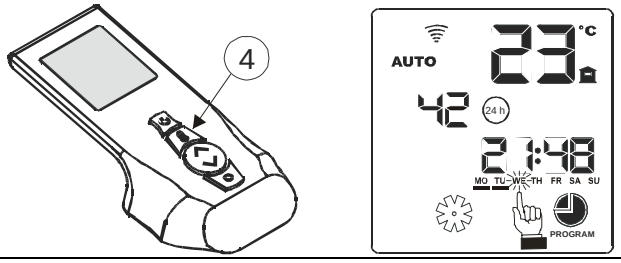
Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

- MONDAY ➔ Programme **20**
- TUESDAY ➔ Programme **42**
- WEDNESDAY ➔ Programme **00**
- THURSDAY ➔ Programme **13**
- FRIDAY ➔ Programme **33**
- SATURDAY ➔ Programme **10**
- SUNDAY ➔ Programme **08**

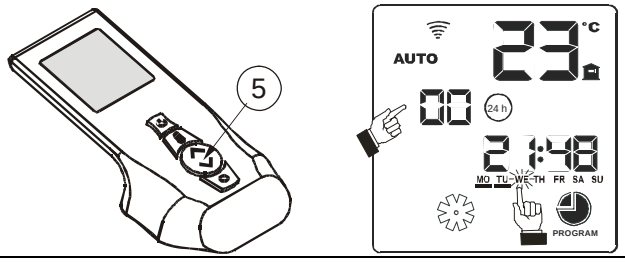
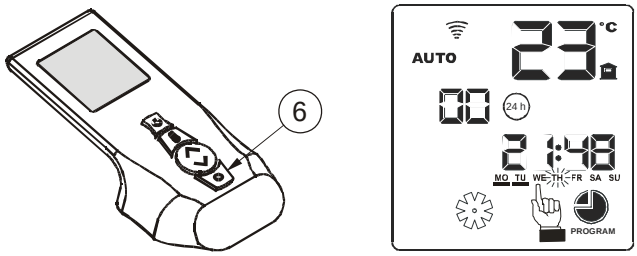
START OF PROGRAMMING: MONDAY

PHASE 1	**PHASE 2**
	
press button **6** several times until the clock icon is completely lit.	Press button **5** up to select programme **P99**.

PHASE 3	**PHASE 4**
	
Press button **4** to confirm entry into daily programming mode. The **24 h** icon will come on and the message **MO**=Monday will start flashing	Press button **5** up to select programme **20** (selected for Monday).

PHASE 5	**PHASE 6**
	
Press button **4** to confirm the programme set for **MO**= Monday and start programming of the day **TU**= Tuesday. When the button is pressed, the dash lights up under the symbol **MO**= Monday and the symbol **TU** = Tuesday starts flashing. The dash shows that a timer programme has been set for that day.	After selecting programme **42** for **TU**=Tuesday, confirm this choice with button **4** to go on to the programming of **WE**= Wednesday. As before, a dash will light up under **TU**=Tuesday and the symbol **WE**=Wednesday will start flashing.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

PHASE 7	PHASE 8
	
For **WE**=Wednesday, no programme is desired. Therefore, as in the other cases, it is enough to use button **5** to select programme **00** and then confirm the selection with button **4.**	Since no programme has been set for **WE**= Wednesday (it was decided to select **00**), you will note that programming moves to **TH**= Thursday but that under the symbol **WE**=Wednesday there is no dash. This means that for that day, no timer programme has been set.

PHASE 9 CONCLUSION
To conclude programming for the remaining days of Thursday, Friday, Saturday and Sunday, proceed as for Monday, Tuesday and Wednesday. The only difference is the programme number which is selected with button **5.**
Upon completion of programming of all days, when you come to **SU**=Sunday, press button **6** to exit programming. You can also wait **30 seconds** and the remote control will automatically exit programming, confirming all settings made. For a quick check of programming, look to see whether there are dashes under the symbols of the week, or you can go back to programming with button **6,** re-select programme **P99** with key **4,** and then, still using button **6**, scroll all the days of the week to check which programme has been set.

4.14. INSERTION OF KEYPAD LOCK

The remote control is equipped with a function that makes it possible to lock the keypad, so that keys cannot be pressed accidentally or the remote control cannot be used by a child.

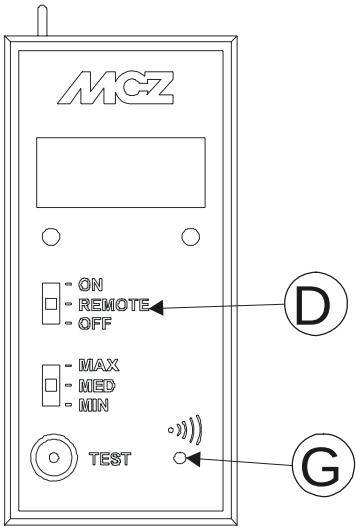
This lock is activated simply by press button **6** for **3 seconds.**

After that time, a lock symbol will appear at the upper left of the display to confirm that the keys are locked.

To deactivate the lock, repeat the operation described above.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

4.15. SYNCHRONIZATION OF REMOTE CONTROL



Upon first start-up of the product, it may be necessary to get the stove to recognize the new remote control. To carry-out this operation, follow the simple instructions that follow:

- connect the stove to the socket and switch the power supply button on
- ensure that the selector **D** of the emergency panel is in the position **REMOTE**
- when the first text appears onto the display of the emergency panel, press the embedded button **G** with the aid of a pointy object (toothpick..)
- three flashing lines "---" will appear on the display. Press the on/off button of the remote control for confirmation.

The three flashing lines will disappear from the display and the stove will recognise the new communication address of the remote control. Recognition will also be confirmed by 4 acoustic sounds.

4.16. SAFETY DEVICES

The stove is fitted with the following safety devices:

- **SMOKE TEMPERATURE SENSOR.**
  Monitors the temperature of the smoke, and gives permission for start-up or shuts the stove down when the smoke temperature falls below the preset value.
- **PELLET HOPPER TEMPERATURE SENSOR.**
  If the temperature exceeds the preset safety level, it immediately shuts down the running of the stove, and has to be reset manually, after the stove has cooled, before the it will restart.
- **ELECTRICAL SAFETY**
  The stove is protected against violent surges of current by the main fuse, which is located on the control panel at the rear of the stove. Other fuses to protect the electronic boards are to be found on the boards themselves.
- **FAILURE OF THE SMOKE EXTRACTION FAN**
  If the fan stops, the electronic board shuts off the supply of pellets in good time, and an alarm is displayed.
- **BREAKDOWN OF THE REDUCTION MOTOR**
  If the reduction motor stops, the stove continues to function until it has cooled down to the minimum level.
- **TEMPORARY POWER CUT**
  If there is a power outage during operation, when the power comes back on the stove will go into cooling mode and then it will come back on automatically.
- **FAILURE TO LIGHT**
  If during ignition no flame develops, the stove will go into alarm condition.

TAMPERING WITH THE SAFETY DEVICES IS PROHIBITED

It is only after eliminating the cause which gave rise to the

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

intervention of the safety system, that it is possible to relight the stove and thus reset the automatic operation of the sensor. To understand which anomaly has occurred, consult this manual at paragraph 4.17 which explains what to do based on the alarm message the stove displays.

ATTENTION

If the stove is not used as described in this instruction booklet, the manufacturer refuses to accept any responsibility for damage to persons and property that may arise. The manufacturer furthermore refuses to accept responsibility for damage to persons and property arising from the failure to observe all the rules contained in the manual and in particular:

- **Failure when carrying out works of maintenance, cleaning and repair to adopt all necessary measures and precautions**
- **Tampering with the safety devices.**
- **Removing the safety devices.**
- **Failure to connect the stove to an efficient system for the discharge of smoke.**
- **Failure to check in advance that the room where the stove is to be installed is adequately ventilated.**

4.17. ALARM SIGNALLING

If there is an operating anomaly, the stove goes into alarm shutdown mode and informs the user of the type of problem that has occurred via a 3-figure code displayed on the rear emergency panel.

The alarm is permanently signalled by the corresponding 3-figure code, by a flashing red light on the emergency panel, and, for the first ten minutes of the alarm, by a periodic acoustic signal. To take the stove out of alarm conditions and restore its normal operation, read the instructions in the next two paragraphs.

The table below describes the possible alarms signalled by the stove, associated to the respective code that appears on the emergency panel, and useful suggestions to solve the problem.

MESSAGE ON DISPLAY	TYPE OF PROBLEM	SOLUTION
A01	Fire fails to ignite	Check the level of pellets in the hopper. Check that the grate is properly inserted in its housing and does not have any obvious unburnt incrustations; Check whether the ignition plug heats.
A02	Fire extinguishes abnormally	It derives from a shutdown due to lack of fuel (hopper empty).
A03	Pellet tank temperature exceeds foreseen safety limit. Overheating of the stove body	The structure is too hot because the product has been operating for too long at maximum power, or it is poorly ventilated, or the air fans are faulty. When the stove is sufficiently cold, press button B of the control panel or OFF on the remote control to cancel the alarm A03. Once the alarm is cancelled it is possible to relight the stove normally.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

MESSAGE ON DISPLAY	TYPE OF PROBLEM	SOLUTION
A04	The temperature of the smoke discharge has exceeded pre-set safety limits	The stove will shut off automatically. Let the stove cool off for a few minutes, then re-light it. Check smoke release and the type of pellet being used.
A06	The smoke extractor is not able to provide the primary air required for combustion.	Draught difficulties or clogging of grate. Check whether the grate is clogged by incrustation and clean as required. Control and if necessary clean the smoke duct and the air intake.
A07	During the function of the stove, an uncontrolled air intake occurred in the combustion chamber or an obstruction in the flue pipe.	Caused by prolonged opening of the fire door or by substantial air infiltration (e.g. smoke fan inspection plug missing) If not caused by these factors control and if necessary clean the smoke duct and the flue pipe.
A08	Flue-gas exhaust fan broken	Check that the smoke fan compartment is clean and if it is dirt that is blocking it. If insufficient, the smoke fan is defective. Call an authorized service centre to make the replacement.
A09	The smoke probe is defective and does not properly measure the temperature of the discharge smoke	Contact an authorized service centre to replace the component.
A10	The plug is defective	Contact an authorized service centre to replace the component.
A11	Defective pellet feeder	Contact an authorized service centre to replace the component.
A12	The remote control has been beyond the reception range of the stove for more than three hours, or its batteries are dead. NOTE: only in this case the stove does not go into alarm shutdown, but continues operating in the mode that the remote control set via the last sent command.	Move the remote control back to within range of the stove, or change the batteries if they are dead. As soon as the stove receives a new signal from the stove, the alarm indications will disappear. A easy way to force a transmission to the stove is to press button 4. This changes operating mode from manual to automatic and vice versa.
A13	Generic failure of electronic control unit	Contact an authorized service centre to replace the component.
A14	Generic failure of sensor	This alarm is not blocked, only a warning screen appears. Contact an authorized service centre to replace the component.
SEr	Periodic maintenance warning	If this flashing messages appears when lighting the stove, it means that the hours of operation pre-set before the maintenance have elapsed and a new maintenance intervention is necessary. Contact a specialist MCZ technician.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

4.18. Exiting alarm condition

If there is an alarm, to restore normal operation of the stove you will need to follow the procedure outlined below:

- Place selector D of the rear emergency panel in the OFF position for a few seconds until the 3-figure code that identifies the type of alarm disappears. The following operation will also stop the flashing of the red LED and the acoustic alarm signal.
- Place selector D back in the REMOTE position, so that the stove can again be managed by the remote control.
- Turn the remote control off and back on again if you want to restart the stove.

Only in the event of defect A12 (no communication between remote control and stove), the stove will remain on with the most recently set mode. It will automatically exit alarm mode as soon as it receives a signal from the remote control.

4.18.1. Mechanical shutdown of the stove

The following things can cause stove shutdown:

- Overheating of the stove body (**"A03"**)
- Overheating of the smoke ("**A04**")
- During the function of the stove, an uncontrolled air intake occurred in the combustion chamber or an obstruction in the flue pipe (**"A07"**)

Shutdown is signalled on the display accompanied by a beep.

In this situation the shutdown cycle is automatically activated.

Once this process has started, any operation which is an attempt to reset the system is useless.

The cause of the shutdown is shown on the display.

WHAT TO DO:

If **"A03" appears: t**he structure is too hot because the product has been operating for too long at maximum power, or it is poorly ventilated, or the air fans are faulty. When the stove is sufficiently cold, press button B on the control panel or OFF on the remote control to cancel the alarm **A03**. Once the alarm is cancelled it is possible to relight the stove normally.

If "**A04**" appears: the stove will shut off automatically. Let the stove cool off for a few minutes, then re-light it.

Control the exhaust of the smoke and

check the type of pellet being used.

If **"A07"** appears: it is caused by the prolonged opening of the fire door or by substantial air infiltration (e.g. smoke fan inspection plug missing). If not caused by these factors control and if necessary clean the smoke duct and the flue pipe. (it is recommended that this operation be conducted by a specialist MCZ technician).

Only after the cause of the blockage has been permanently eliminated can a fresh attempt to relight the stove be made.

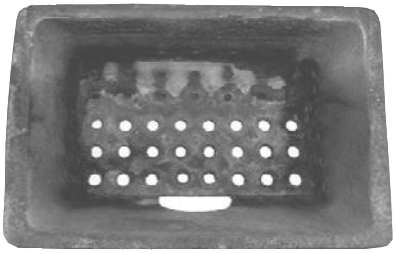
Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

5. MAINTENANCE AND CLEANING

ATTENTION!

All cleaning of all parts must be carried out with the stove completely cold and unplugged.

The stove does not need much maintenance if used with certified quality pellets.



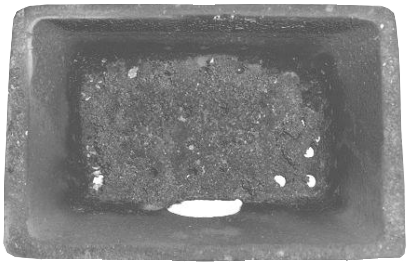
Example of clean grate

5.1. DAILY AND WEEKLY CLEANING BY THE USER

5.1.1. Before each lighting

Using a suitable tool clean the grate **"F"** of ash and any incrustation which could obstruct the passage of air.

In the case of pellet depletion, unburnt pellet in the grate could accumulate in the hopper. Always empty the residuals from the grate prior to each lighting.



Example of dirty grate

REMEMBER THAT ONLY A CORRECTLY POSITIONED AND CLEAN GRATE CAN GUARANTEE THE OPTIMAL LIGHTING AND OPERATION OF YOUR PELLET STOVE.

For good cleaning of the grate **A**, pull it completely out of its housing and thoroughly clean the grate and holes on the bottom. If you use good-quality pellets, you will normally only need to use a paintbrush to restore the perfect condition of the component. For tough incrustations, use the steel tool provided with the stove.

5.1.2. Check every 2/3 days

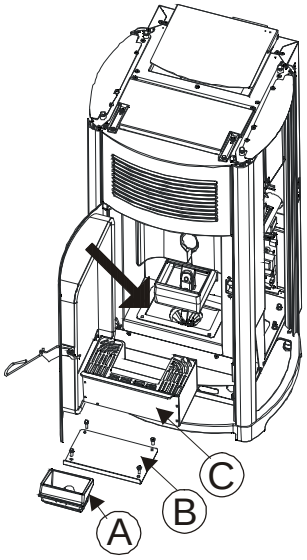
Clean and empty the ash drawer, watching out for hot ash.

Only if the ash is completely cold, it is possible to use a vacuum cleaner to remove it. Use a drum-type vacuum cleaner that is suitable for picking up particles of a certain size.

Experience, and the quality of the pellets used, will determine the frequency of cleaning.

It is however advisable not to let it exceed 2 or 3 days.

Once the operation is finished, reinsert the ash drawer below the grate making sure it is well inserted



Cleaning the ash collection compartment

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

5.1.3. Cleaning the glass

For cleaning the ceramic glass, the use of a dry brush is recommended, or if it is very dirty, the special spray detergent, applying a small quantity then cleaning with a cloth.

ATTENTION!

Do not use abrasive products and do not spray the cleaning product on the glass of the painted parts or on the gaskets of the fire door (ceramic fibre cord).

Cleaning the glass

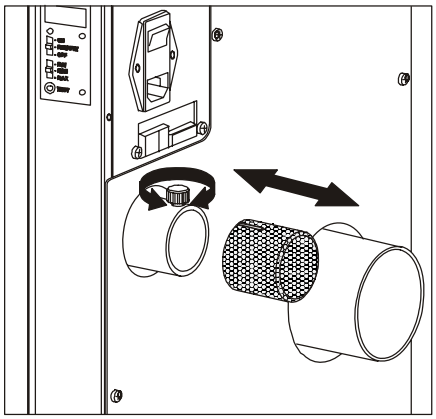
5.1.4. Cleaning of the air filter

At the lower part of the stove, where there is the inlet pipe for combustion air Ø 5 cm, at the time of installation of the stove a metal mesh air filter must be inserted to prevent dirt from getting into the motor body and internal sensor.

It is advisable to check every 15/20 days whether the filter is clean. Remove lint or any other material which may have been trapped by the filter.

Checking and cleaning will be required more frequently if there are pets in the home.

For cleaning, just turn the knob that holds the filter on the air intake pipe and remove the filter by turning in the direction indicated by the arrow. Clean it with a brush, damp cloth or compressed air.



Removing the air filter for cleaning

The filter is made of metallic mesh. It is soft and malleable to the touch. Therefore, when cleaning it, be careful not to crush it or damage it in any other way. If it is broken it must be replaced

ATTENTION!

Never operate the stove without the air filter. MCZ shall not be held liable for damage to internal components if this instruction is not followed.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

5.2. PERIODIC CLEANING BY A SPECIALISED TECHNICIAN

5.2.1. Cleaning of the heat exchanger

Halfway through the winter, but **especially in the spring**, you will need to clean the compartment where discharge smoke passes.

This cleaning must be done in order to remove all combustion residues before time and humidity let them harden and make them difficult to remove.

ATTENTION!
You are advised to contact an authorised MCZ centre for the cleaning of the upper exchanger.

CLEANING THE UPPER EXCHANGER

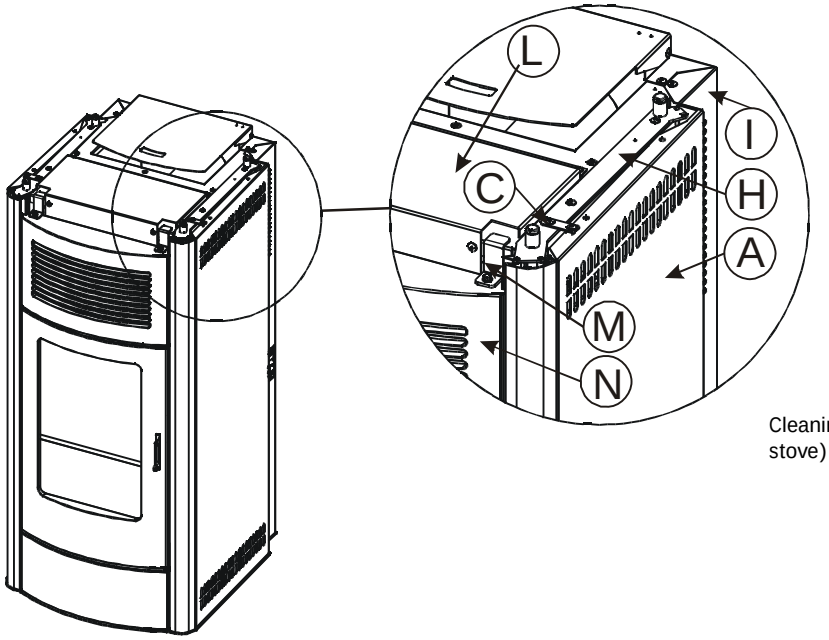
When the stove is cold, carry out the following operations to clean the upper exchanger.

5.2.1.1. *Musa stove (steel sides) COMFORT AIR version*

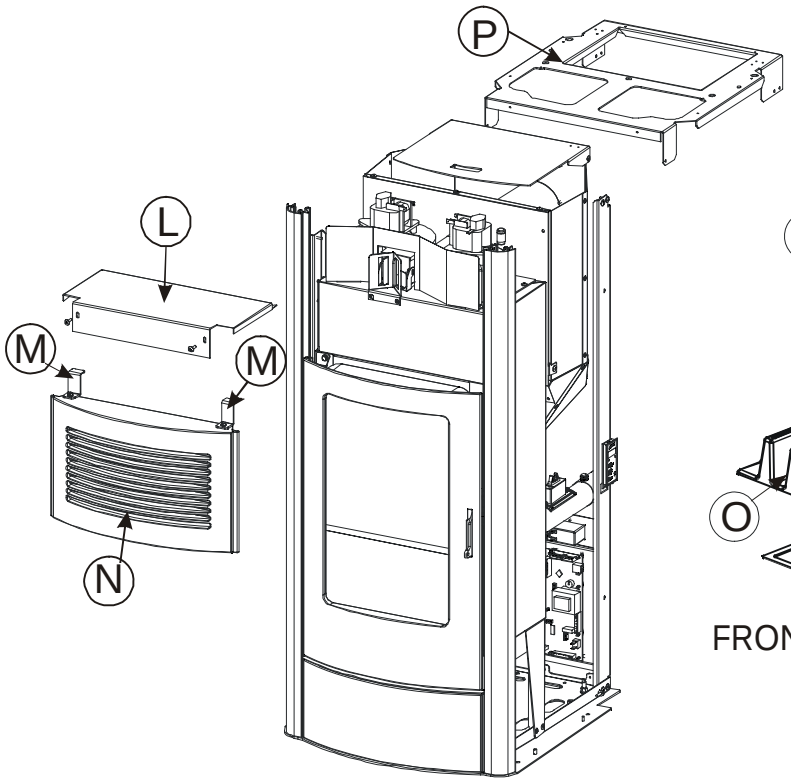
1. Remove the cast iron top.
2. Remove the steel sides **A** (see par. 3.4.5. page 25)
3. Remove the back **I** of the stove by unscrewing the screws
4. Remove the upper plug **L** (4 screws)
5. Remove the side brackets **H** securing the sides to the right and to the left (2 uppers screws)
6. Remove the front cast iron grid **N** with the two brackets **M**
7. Remove the cover **P**
8. Remove the fan group by unscrewing the 7 screws **Q**
9. Remove the exchanger **O** by unscrewing the 4 screws that secure it

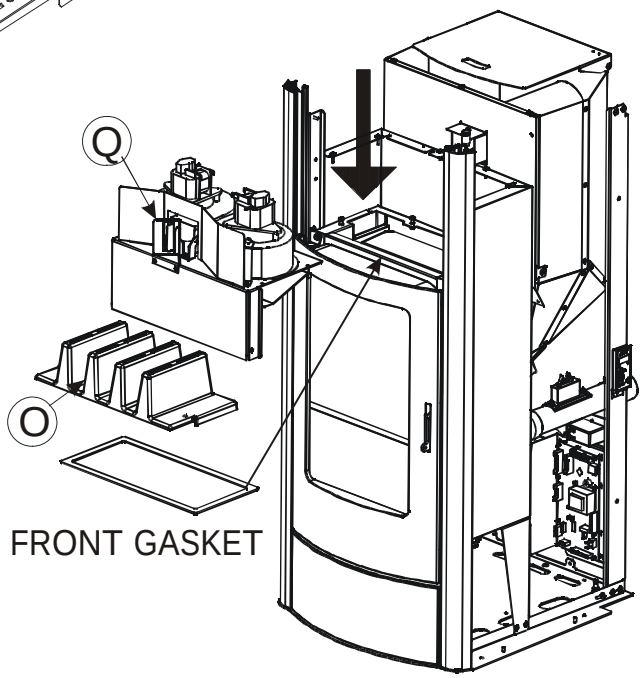
Clean and refit all the components by using a new front gasket.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited



Cleaning the upper exchanger (Musa Comfort Air stove)



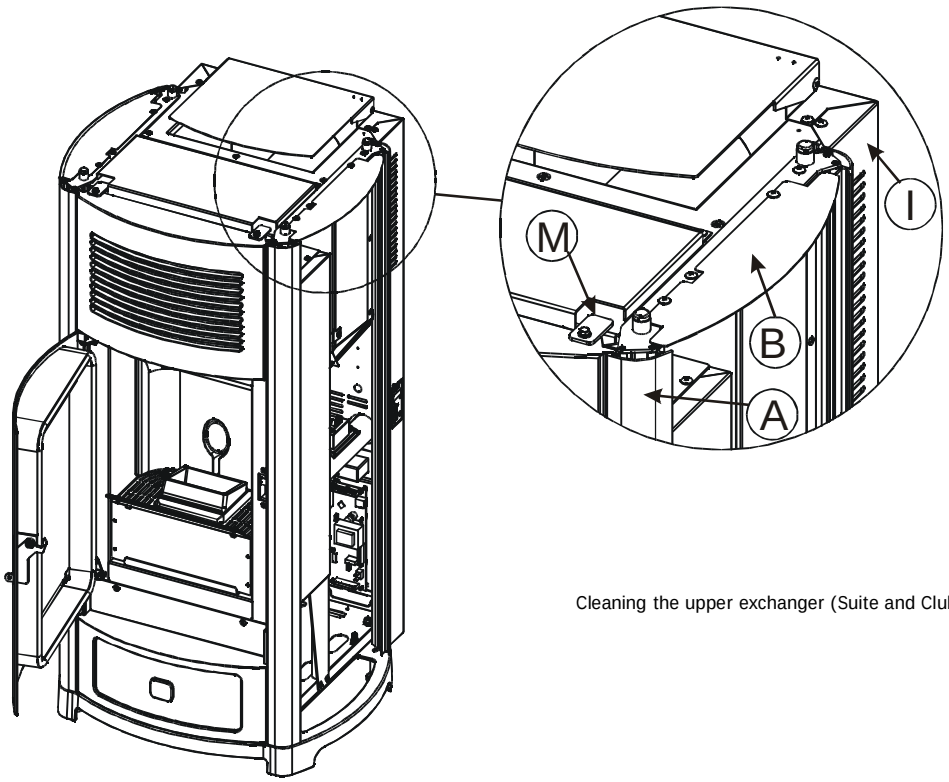


Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

5.2.1.2. *Suite and Club stove (ceramic sides) COMFORT AIR version*

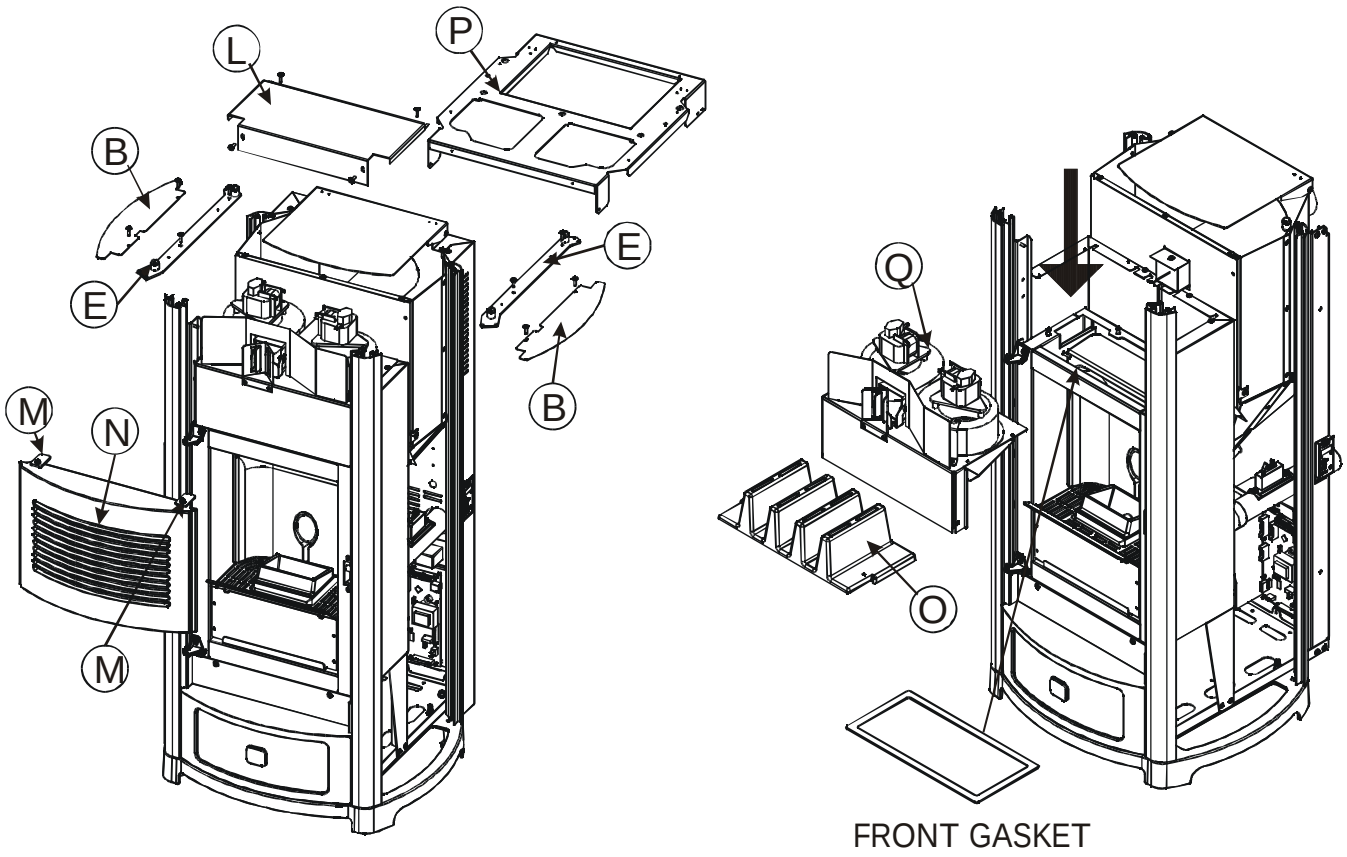
1. Remove the ceramic top.
2. Remove the two micro-perforated compensation grills for the sides **B** (see par.3.4.2 page 23)
3. Remove the ceramic sides (three to the right and three to the left) see page 23
4. Remove the back **I** of the stove by unscrewing the screws
5. Remove the upper brackets **E** securing the profiles **A**
6. Remove the front cast iron grid **N** with the brackets **M**
7. Remove the upper plug **L** by unscrewing the four screws
8. Remove the upper cover **P**
9. Remove the fan group **Q by unscrewing the 7 screws**
10. Remove the exchanger **O** by unscrewing the four screws that secure it

Clean and refit all the components by using a new front gasket.



Cleaning the upper exchanger (Suite and Club stove)

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited



Cleaning the upper exchanger (Suite and Club stove)

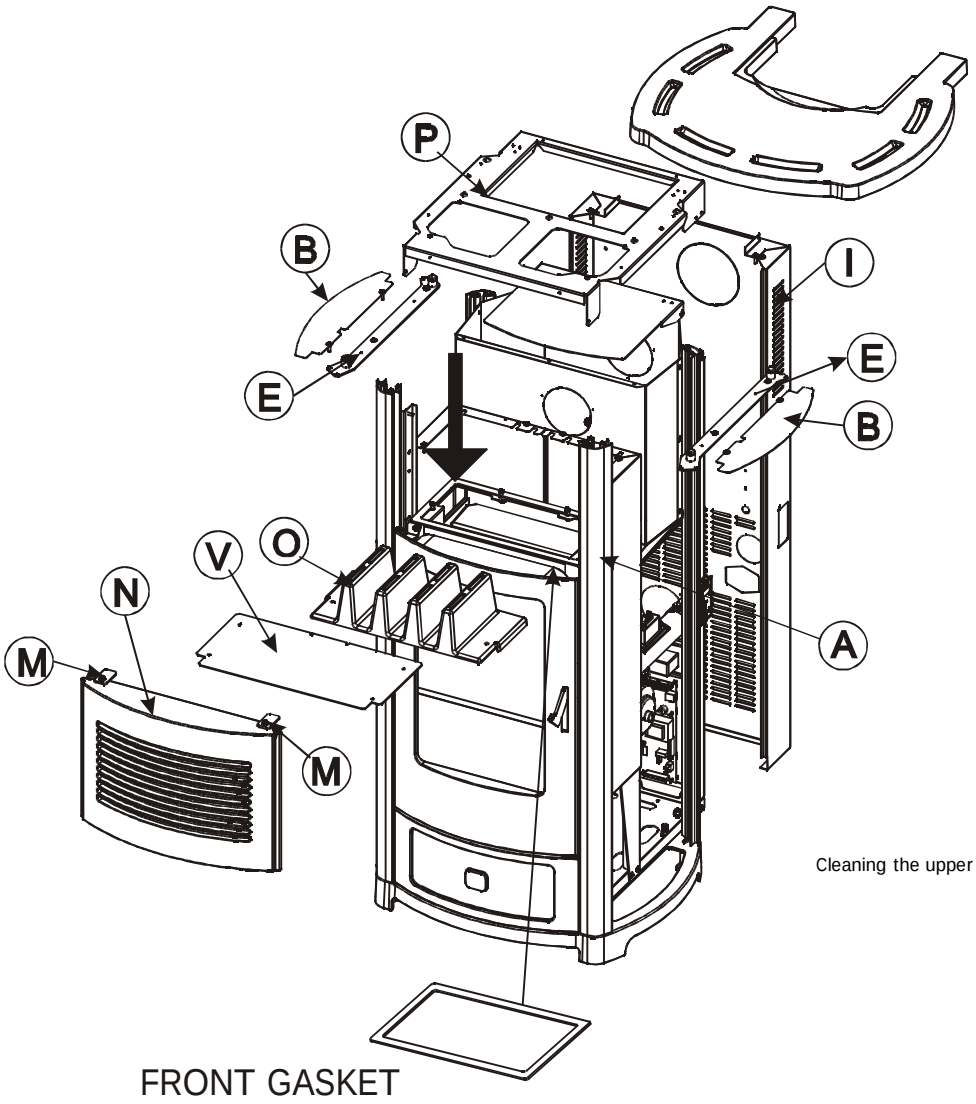
Using a stiff rod or a bottle brush, scrape the inner walls of the fire box so that the ashes drop into the part below.

5.2.1.3. *Suite and Club stove (ceramic sides) AIR version*

1. Remove the ceramic top.
2. Remove the two micro-perforated compensation grills for the sides **B** (see par.3.4.2 page 23)
3. Remove the ceramic sides (three to the right and three to the left) see page 23
4. Remove the back **I** of the stove by unscrewing the screws
5. Remove the upper brackets **E** securing the profiles **A**
6. Remove the front cast iron grid **N** with the two brackets **M**
7. Remove the upper cover **P**
8. Remove the plug **V** by unscrewing the screws
9. Remove the exchanger **O** by unscrewing the four screws that secure it

Clean and refit all the components by using a new front gasket.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

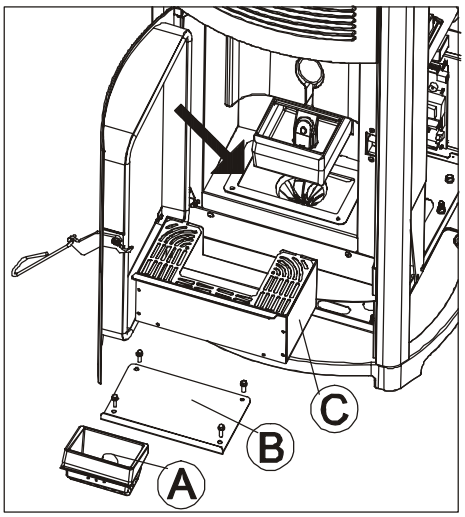


Cleaning the upper exchanger (Suite and Club stove)

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

5.2.2. CLEANING THE LOWER COMPARTMENT

Remove the ash drawer **C**, open the lower inspection plug **B**, by unscrewing the four screws, and with a vacuum cleaner, remove all ash and soot which has built up in the heat exchanger and in the smoke extraction fan.



Cleaning the lower compartment

CLEANING OF SMOKE DUCT AND GENERAL CHECKS:

Clean the smoke discharge system, especially in the area of the tee connectors, curves and any horizontal stretches of pipe.

For information on cleaning the flue pipe, contact a professional chimney sweep.

Check the seal of the ceramic fibre gaskets on the door of the stove. If necessary, order new gaskets from the retailer for replacement or contact an authorized service centre to carry out this work.

ATTENTION:

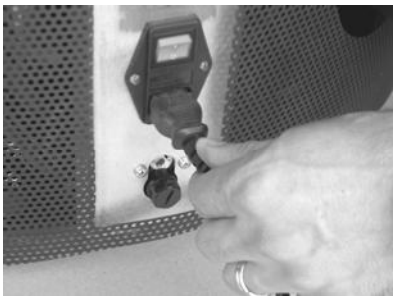
The frequency with which the smoke discharge system is cleaned should be determined based on the type of use that is made of the stove and the type of installation.

MCZ suggests relying on an authorized service centre for end-of-season cleaning and maintenance, who will carry out all of the previously mentioned work and make a general check of the stove's components.

5.2.3. Shutting the stove down (end of season)

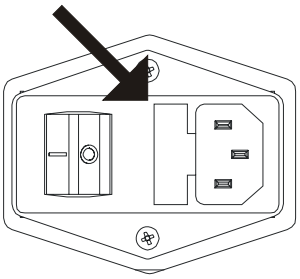
At the end of season, before shutting down the stove, we recommend completely removing pellets from the hopper with the use of a vacuum cleaner with an extension.

During periods of disuse, the stove must be unplugged and placed in a dry place protected from the elements. For greater safety, especially if there are children around, we recommend removing the supply cable from the rear of the stove.



Upon re-start, when pressing the main switch (located on the back of the stove) does not make the control panel display light up, it could mean that the service fuse needs replacing.

On the rear of the stove there is a fuse holding compartment which is located underneath the supply socket. Use a screwdriver to open the fuse-holder compartment and if necessary replace them (3.15 AT delayed)



5.2.4. Check of internal components

ATTENTION!

The check of the internal electro-mechanical components must be carried out only by qualified personnel with technical knowledge of electricity and combustion.

We recommend that an annual maintenance service is carried out, preferably under a programmed service contract. The essential part of this service is a visual and functional check on the internal components:

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

The following is a summary of the checks and/or maintenance tasks which are indispensable for the correct operation of the stove.

PARTS / INTERVAL	1 DAY	2-3 DAYS	30 DAYS	60-90 DAYS	1 YEAR
Grate	●				
Ash collection		●			
Ash drawer		●			
Glass		●			
Lower heat exchanger				●	
Complete exchanger					●
Smoke duct			●		
Door seal					●
Air filter			●		●
Flue pipe					●
Remote control battery					●

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

6. PROBLEMS / CAUSES / SOLUTIONS

ATTENTION:

All repairs must be carried out exclusively by a specialised technician, with the stove completely cold and the electric plug pulled out.

PROBLEM	POSSIBLE CAUSES	REMEDY
Pellets not being fed into the combustion chamber.	• Pellet hopper empty. • Feeder screw blocked by sawdust. • Reduction motor defective. • Defective electronic board.	• Refill pellet hopper. • Empty the hopper and manually free the feeder screw of sawdust. • **Replace reduction motor.** • **Replace electronic board.**
The fire goes out or the stove stops automatically.	• Pellet hopper empty. • Pellets not being fed in. • Intervention of pellet temperature sensor. • Door not closed properly or gaskets worn. • Unsuitable pellets. • Low pellet feed rate. • Combustion chamber dirty. • Smoke outlet obstructed. • Smoke extraction motor failed.	• Refill pellet hopper. • See previous problem.. • Let the stove cool down completely, reset the thermostat till lockout ceases, relight stove; if problem persists, contact technical assistance. • Close the door **or replace the gaskets with original spare parts**. • Change to a type of pellet recommended by the manufacturer. • **Have the fuel feed rate checked by technical service.** • Clean the combustion chamber, following instructions in the manual. • Clean the smoke duct. • **Check the motor and replace if necessary.**
The stove runs for a few minutes and then goes out.	• Lighting cycle not completed. • Temporary failure of electricity supply. • Smoke duct obstructed. • Temperature sensors defective or broken. • Sparkplug failure.	• Re-run lighting cycle. • See previous instruction. • Clean smoke duct. • **Check and replace sensors as necessary.** • **Check the plug and replace if necessary.**
Pellets build up in grate, door glass gets dirty and flame is weak.	• Insufficient combustion air. • Pellets damp or unsuitable. • Smoke extractor motor broken.	• Check that the room air intake is present and free. • Check that the combustion air filter on the pipe Ø 5 cm for air inlet is not obstructed. • Clean the grate and check that all the airways are clear. • Carry out a general cleaning of the combustion chamber and the smoke duct. • Check the state of the door gaskets. • Change the type of pellet. • **Check the motor and replace if necessary.**

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

PROBLEM	POSSIBLE CAUSES	REMEDY
The smoke extraction motor does not work.	• No electrical supply to the stove. • The motor is broken. • Defective electronic board. • Control panel broken.	• Check the supply voltage and the protection fuse. • **Check the motor and capacitor and replace if necessary.** • • **Replace electronic board.** • **Replace the control panel.**
The convection air fan runs continuously.	• Temperature sensor defective or broken. • Fan broken.	• **Check the operation of the sensor and replace if necessary.** • **Check the operation of the motor and replace if necessary.**
Remote control does not work	• Remote control batteries flat. • Remote control broken.	• Replace batteries. • Replace remote control.
In the automatic position the stove always runs at full power.	• Room thermostat set to maximum. • Temperature sensor defective. • Control panel defective or broken.	• Reset the thermostat temperature. • **Check the operation of the sensor and replace if necessary.** • **Check the panel and replace if necessary.**
The stove does not run	• Lack of electricity supply. • Pellet sensor in lockout. • Fuse blown. • Smoke outlet or duct blocked.	• Check that the electric socket is plugged in and that the main switch is in position "I". • Clear lockout by resetting the rear thermostat, **replace the thermostat if it happens again**. • Replace the fuse. • Clean the smoke outlet and/or smoke duct.

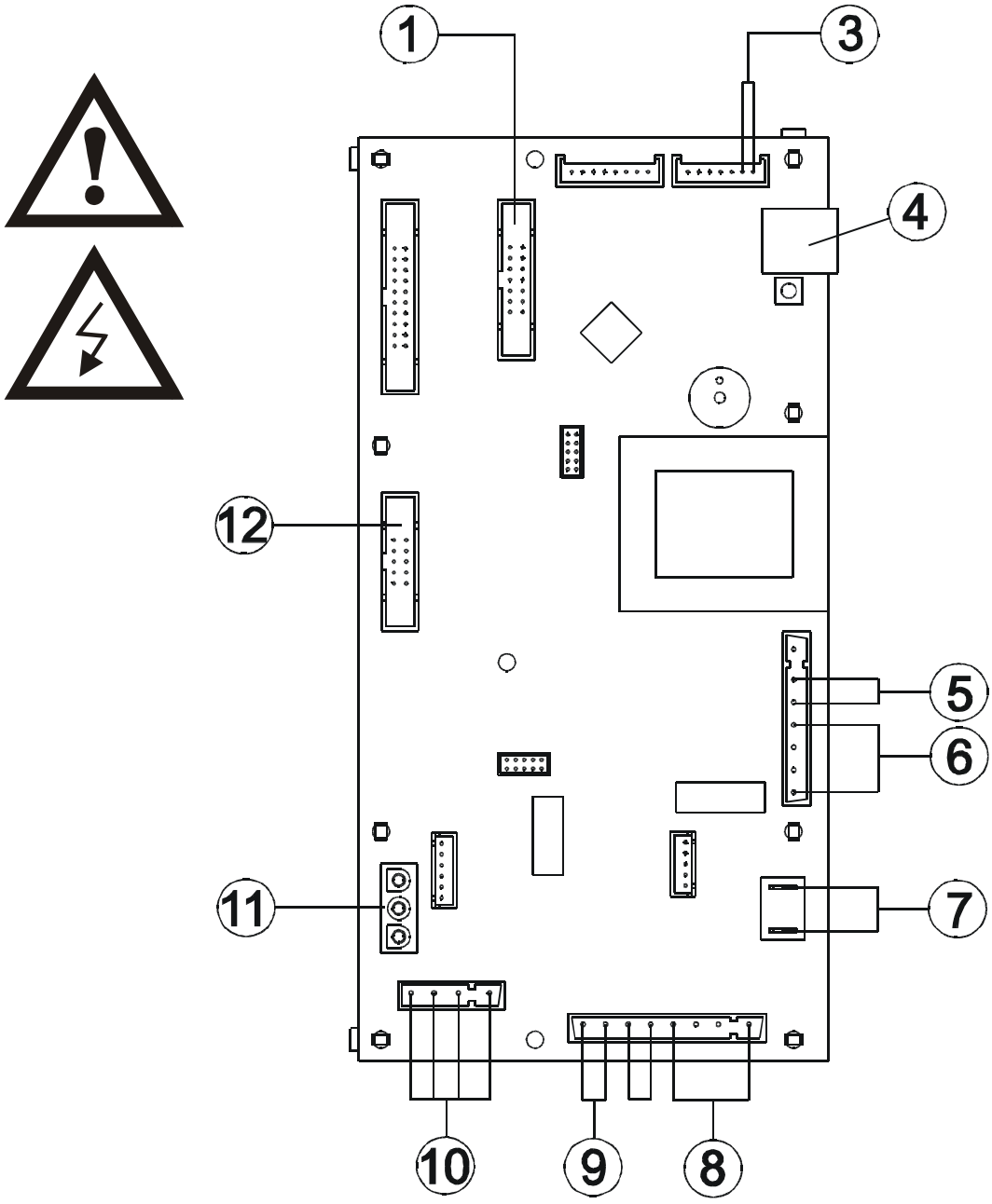
ATTENTION

The operations marked in bold type must be carried out by specialised MCZ personnel.

The manufacturer refuses to accept any responsibility and the guarantee lapses if this condition is not respected.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

7. ELECTRICAL DIAGRAMS



MOTHERBOARD WIRING KEY

~~1.~~ Emergency panel	8. Reduction motor
3. Smoke sensor	9. Contact thermostat
4. Modem connection	10. Air fan
5. Switch	11. Flue-gas extractor fan revolutions control
6. Ignition plug	12. Air flow sensor
7. Flue-gas extractor fan	

N.B. The electrical wiring of the single components includes pre-wired connectors which are of different sizes.

Technical service - Rights reserved MCZ S.p.A. - Reproduction prohibited

MCZ S.p.A.
Via Guglielmo Oberdan n°86
33074 Vigonovo di Fontanafredda (PN) – ITALY
Telephone: 0434/599599 r.a.
Fax: 0434/599598
Internet: www.mcz.it
e-mail: mcz@mcz.it